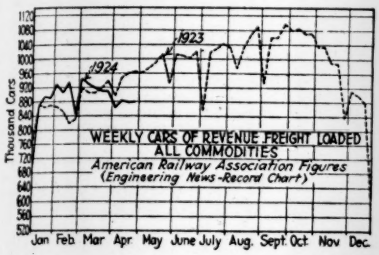
CONSTRUCTION NEWS

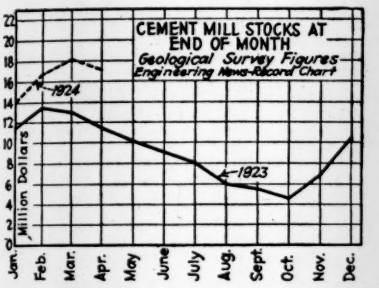
Engineering News-Record, May 29, 1924

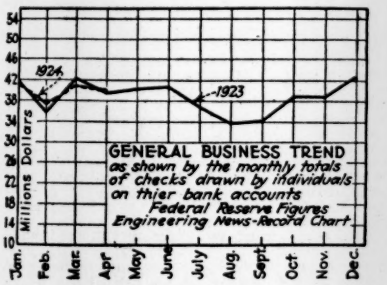
The Construction Barometer

Current Situation One of Curtailed Production, Small Quantity Buying and Few Price Changes — Car Loadings and Public Contract Letting Gain

CAUTION is the prevailing element in the current market. The situation is one of curtailed production, small-quantity buying and few changes in prices. The upward trend in volume of construction during April evidently resulted from lower construction cost, as shown by the chart. Since the first week in May, however, there has been a steady decline in contract letting with the possible exception of a slight gain in public awards, mostly for buildings. Latest reports show that revenue freight loadings, while somewhat under a year ago, are heavier than last month and also greater than during May, 1920, '21, and '22. The general trend of trade and industry. with the exception of building. is downward and few signs point to an immediate change in the situation.






1924
1923
GENERAL BUSINESS TREND
as shown by the monthly totals
of checks drawn by individuals
on thier bank accounts
Federal Reserve Figures
Engineering News-Record Chart
Millions Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
May 8	$30,319,000	$38,829,000	$69,148,000
May 15	21,484,000	25,500,000	46,984,000
May 22	35,046,000	13,689,000	48,735,000
3 weeks	$86,849,000	$78,018,000	$164,867,000

LARGE BUILDING CONTRACTS— NUMBER AND VALUE

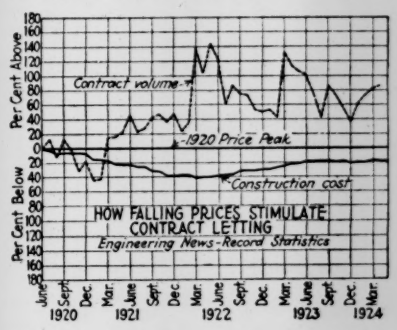
Week Ended	Public No.	Public Work	Private No.	Private Work
May 8	10	$2,637,000	47	$19,111,000
May 15	9	2,261,000	38	20,937,000
May 22	19	12,021,000	24	8,348,000
3 weeks	38	$16,919,000	109	$48,396,000

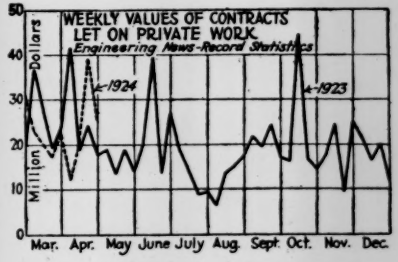
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

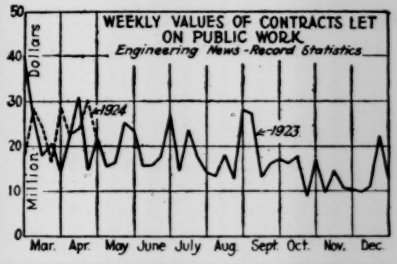
Week Ended	Private	All Buildings	Public: Streets and Roads	Public: Water-works and Sewers	Public: All Public
May 8	35	45	96	40	198
May 15	38	44	98	41	214
May 22	30	41	111	41	248

FEW PRICE CHANGES DURING PAST WEEK

	Quoted on May 29 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.10 @2.25	$2.10 @2.35	May 15
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	60.00	61.00	May 15
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.56	.55	Apr. 24


Contract volume
1920 Price Peak
Construction cost
HOW FALLING PRICES STIMULATE CONTRACT LETTING
Engineering News-Record Statistics
Per Cent Above
Per Cent Below
June Sept. Dec. Mar. June Sept. Dec. Mar. June Sept. Dec. Mar. June Sept. Dec. Mar.
1920 1921 1922 1923 1924





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
May 19	Milwaukee, Wis.	May 29
June 2	Pennington, N. J.	May 29
June 3	Weldon, N. C.	May 29
June 4	Kimberly, Wis.	May 29
June 6	Denver, Colo. Adv. May 8 to 29.	May 15
June 6	Fulton, N. Y. Adv. May 22 and 29.	May 22
June 6	Garfield Heights, (Cleveland P. O.), O.	May 29
June 6	New York, N. Y.	May 29
June 9	Hawthorne, Calif.	May 29
June 11	Coushatta, La.	May 29
June 12	Cleveland, O.	May 15
June 12	Athens, Wis.	May 29
June 14	Tucumcari, N. M. Adv. May 15 to 29.	May 15
June 17	Glenmore, La.	May 29
June 19	Lewisburg, Tenn. Adv. May 22 and 29.	May 29
June 19	Lewisburg, Tenn.	May 29
June 24	Tampa, Fla. Adv. May 22 and 29.	May 22
June 26	Durham, N. C. Adv. May 22 and 29.	May 29
July 2	Jackson, Mich. Adv. May 29.	May 29

SEWERS

May 24	Columbus, O.	May 8
May 26	Sunbury, Pa.	Apr. 10
June 2	Cleveland Heights (Warrensville P. O.),	May 29
June 3	Columbus, O.	May 29
June 3	Manasquan, N. J. Adv. May 29.	May 29
June 3	Pismo Beach, Calif.	May 29
June 4	Philadelphia, Pa.	May 22
June 4	Sayreville, N. J.	May 22
June 4	Brooklyn, N. Y.	May 29
June 5	Sanford, S. C.	May 29
June 6	Portland, Me.	May 15
June 6	Garfield Heights, (Cleveland P. O.) O.	May 29
June 12	Inverness, Miss.	May 29
June 10	Royal Oak, Mich. Adv. May 29.	May 29
June 18	Union City, Tenn. Adv. May 15 to 29.	May 15

WASTE DISPOSAL

June 9	Sewickley, Pa. Adv. May 22 and 29.	May 29

BRIDGES

May 29	Michigan	May 29
June 2	New Jersey Adv. May 29.	May 22

Bids Close		See Eng. News-Record
June	3 West Chester, Pa.	May 22
June	3 Louisiana	May 29
June	3 Muncie, Ind.	May 29
June	5 Key West, Fla. Adv. May 8 to 29.	May 8
June	6 Milford, O.	May 15
June	9 Alabama	May 15
June	9 Perryville, Ill.	May 29
June	10 Florida	May 29
June	10 Montana	May 29
June	12 Albany, Ore.	May 15
June	18 Philadelphia, Pa. Adv. May 22 and 29.	May 22
June	27 Seattle, Wash. Adv. May 15 to 29.	May 15

EXCAVATION, DRAINAGE IRRIGATION

May	29 Orleans, Mass.	May 29
May	31 Danville, Ill.	May 8
May	31 Cumberland, Ont.	May 22
June	3 New Jersey Adv. May 15 to 29.	May 22
June	7 Vancouver, Wash.	May 29
June	9 Corinth, Miss.	May 29
June	11 New York Adv. May 29.	May 29
June	14 Newbern, Tenn.	May 29
June	17 Lake Village, Ark.	May 22

STREETS AND ROADS

May	27 Framingham, Mass.	May 29
May	29 Quincy, Mass.	May 29
May	31 East St. Louis, Ill.	May 29
June	2 Huntsville, Ala.	May 15
June	2 Highland Falls, N. Y. Adv. May 8 to 22.	May 15
June	2 Clarington, O.	May 22
June	2 Mt. Holly, N. J. Adv. May 15 to 29.	May 22
June	2 Warsaw, Ind.	May 22
June	2 Michigan	May 22
June	2 Huntsville, Ala.	May 22
June	2 Hancock, Md.	May 29
June	2 New Jersey	May 29
June	2 Cleveland Heights (Warrensville P. O.), O.	May 29
June	3 Denver, Colo.	May 29
June	3 Illinois	May 29
June	3 Upper Darby, Pa.	May 29
June	3 Columbus, O.	May 29
June	3 Franklin, Tex.	May 22
June	3 Massachusetts	May 22
June	3 Michigan	May 22
June	3 West Virginia	May 22
June	3 Rushville, Ind.	May 15
June	3 Carrizo Springs, Texas	May 15
June	3 Pennsylvania Adv. May 15 to 29.	May 15
June	3 West Virginia	May 22
June	3 Fort Wayne, Ind.	May 22
June	3 New York Adv. May 15 to 29.	May 22
June	3 New York, N. Y.	May 29
June	3 Long Island City, N. Y.	May 29
June	3 North Caldwell (Newark), N. J.	May 29
June	4 Delaware	May 15
June	4 Winchester, Ind.	May 22
June	4 Freehold, N. J. Adv. May 22 and 29.	May 22
June	4 Michigan	May 22
June	4 Brooklyn, N. Y.	May 29
June	4 Saluda, S. C.	May 29
June	4 St. George, N. Y.	May 29
June	5 New York, N. Y.	May 29
June	5 Louisiana	May 22
June	5 Virginia	May 22
June	5 North Little Rock, Ark.	May 22
June	5 Key West, Fla. Adv. May 8 to 29.	May 8
June	5 Elkins, W. Va.	May 22
June	5 Sumter, S. C.	May 22
June	6 Georgia	May 22
June	6 Cincinnati, O.	May 29
June	6 Waxahachie, Tex.	May 29
June	6 Vincennes, Ind.	May 29
June	6 Goshen, Ind.	May 29
June	9 St. Paul, Minn.	May 29
June	9 South Bend, Ind.	May 29
June	9 Alabama	May 15
June	9 Sweetwater, Texas	May 22
June	9 California	May 29
June	9 Hawthorne, Calif.	May 29
June	9 Los Angeles, Calif.	May 29
June	9 Michigan	May 29
June	10 Michigan	May 29
June	10 Montana	May 29
June	10 Birmingham, Ala.	May 22
June	10 Oskaloosa, Kan.	May 22
June	10 Maryland Adv. May 29.	May 29
June	10 Ft. Wayne, Ind.	May 29
June	10 Hot Springs, Ark.	May 29
June	10 Kentucky	May 29
June	12 Atlantic City, N. J.	May 29
June	12 Louisiana	May 29
June	16 Alabama	May 22
June	16 Michigan	May 22
June	16 Akron, O.	May 29
June	16 California	May 29
June	17 Morehead City, N. C. Adv. May 29.	May 29
June	17 Shenandoah, Pa. Adv. May 29.	May 29
June	18 Independence, Kan.	May 29
June	18 Pecos, Tex.	May 29
June	20 Baird, Tex.	May 29
June	20 Wichita, Kan.	May 29
June	24 Howard, Kan.	May 29
July	1 Lisbon, O.	May 15
July	1 Lisbon, O.	May 22

INDUSTRIAL WORKS

June	2 Kewanee, Ill.	May 29
June	2 Philadelphia, Pa.	May 29
June	3 Bloomsburg, Pa.	May 29
June	3 Neilsville, Wis.	May 29
June	10 Harrisburg, Pa. Adv. May 22 and 29.	May 22
June	17 Saratoga Springs, N. Y.	May 22

BUILDINGS

May	31 Clymer, Pa.	May 22
May	31 Atlantic City, N. J.	May 22
June	1 Canton, Mo.	May 8
June	1 Milwaukee, Wis.	May 29
June	2 Mt. Pleasant, N. Y. Adv. May 22 and 29.	May 22
June	2 Quebec, Que.	May 29
June	2 Columbus, O.	May 8
June	2 Grove City, Pa.	May 15
June	2 Columbus, O.	May 22
June	2 Kansas City, Kan.	May 22
June	3 Koch, Mo.	May 8
June	3 Caruthersville, Mo.	May 22
June	3 Atlantic City, N. J.	May 29
June	4 Mansfield, O.	May 29
June	4 Flint, Mich.	May 29
June	4 Gloversville, N. Y.	May 29
June	5 Upper Darby, Pa.	May 15
June	5 Galveston, Tex.	May 15
June	5 Mansfield, O.	May 22
June	5 Pine Bluff, Ark.	May 22
June	5 Denver, Col.	May 22
June	6 North Little Rock, Ark.	May 29
June	7 Kirksville, Mo.	May 29
June	9 Irvington, N. J.	May 22
June	9 Elizabeth, N. J. Adv. May 29.	May 29
June	9 Long Beach, Calif.	May 29
June	10 New York, N. Y.	May 15
June	10 New York, N. Y.	May 22
June	10 Burlington, Wis.	May 22
June	12 Woodbury, N. J.	May 29
June	14 Brooklyn, N. Y.	May 22
June	15 Dallas, Tex.	May 29
June	16 Greigsville, N. Y. Adv. May 15 to 29.	May 22
June	16 Burlington, Wis.	May 29
June	18 Asbury Park, N. J.	May 22
June	24 New York, N. Y.	May 29
June	27 Lubbock, Tex.	May 29
July	1 Dallas, Tex.	May 22

FEDERAL GOVERNMENT WORK

May	28 Roads—Colorado	May 29
June	2 Cottages—Cincinnati, O.	May 15
June	2 Steel Barge—Chicago, Ill.	May 22
June	4 Hospital Buildings — San Diego, Calif.	May 8
June	5 Derrick Boat—Chicago, Ill.	May 22
June	10 Dredging, etc.—Jacksonville, Fla.	May 22
June	10 Hospital Ward—Ft. Sill, Okla. Adv. May 29.	May 29
June	11 Post Office—Saranac Lake, N. Y.	May 8
June	11 Generating Plants—Pittsburgh, Pa. Adv. May 15 to 29.	May 15
June	12 Tower—Philadelphia, Pa.	May 22
June	12 Post Office—Dubois, Pa. Adv. May 22 and 29.	May 22
June	13 Post Office—Greensburg, Pa.	May 29
June	14 Operating Machinery—Florence, Ala. Adv. May 15 to 29.	May 15
June	14 Florence, Ala.	May 29
June	16 Breakwater—Dunkirk Harbor, N. Y. Adv. May 22 and 29.	May 22
June	17 Laundry—Tupper Lake, N. Y.	May 29
June	17 Post Office—Salesbury, Md.	May 22
June	18 Screens, etc.—Florence, Ala. Adv. May 29.	May 29
June	18 Post Office — Salisbury, Md. Adv. May 22 and 29.	May 22
June	18 Dump Scows—Pittsburgh, Pa. Adv. May 22 and 29.	May 22
June	19 Post Office—Bluffton, Ind. Adv. May 29.	May 29
June	24 Hospital—Rutland, Mass. Adv. May 29.	May 29
June	24 Mess Hall, etc.—Gulfport, Miss. Adv. May 29.	May 29
June	24 Buildings, etc.—Federal Park, Md. Adv. May 29.	May 29
June	25 Bridges—Wilmington, Del.	May 1
June	26 Dredging—Baltimore, Md. Adv. May 29.	May 29
Aug.	5 Bridge—Florence, Ala. Adv. May 15 to 29.	May 15

UNCLASSIFIED

June	2 Grandstand—West Allis, Wis.	May 22
June	2 Steel—New York, N. Y.	May 22
June	6 Subway—Cincinnati, O.	May 29
June	6 Sea Wall, etc.—Tampa, Fla.	May 1

MATERIAL AND EQUIPMENT

May	29 Street Sweepers—Cleveland, O.	May 29
June	2 Castings—New York, N. Y.	May 29
June	3 Trucks — Minneapolis, Minn.	May 29
June	3 Underground Cable—New Haven, Conn.	May 29
June	3 Paving Materials—St. Paul, Minn.	May 29
June	4 Asphalt Road Oil—Brooklyn, N. Y.	May 29
June	5 Slurry Tanks—San Antonio, Tex.	May 29
June	5 Asphaltic Concrete — New York	May 29
Aug.	29 Dredger—Brisbane, Queensland, Australia	Apr. 10

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Brighton (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, plans laying and relaying water pipes in Cleveland Circle, Commonwealth Ave., Southerland and Colonial Rds. To exceed $15,000. J. A. Rourke, Boston, comr.

Mass., Roxbury (Boston, P. O.)—See "Sewers."

N. Y., Ballston Spa—Bd. Trustees opens bids about June 15, 6 mi. pipe line, reservoir and dam in Cook Brook. $320,000. Engineer, c/o State Water Control Comn., Albany.

S. C., Goldville—See "Industrial Works."

Fla., Melbourne—Election June 9, $75,000 bonds, waterworks plant and distributing system.

Ky., Newport—Plans new steam driven pump, not less than 6 m.g. capacity. $135,000. H. K. Flutmus, Court House, engr.

Ky., Paintsville—Plans filtration plant with high and low service pumping stations, reservoir, etc. $70,000. D. E. Davis and J. N. Chester, Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.

Ind., Anderson—Making plans approximately 14,000 ft. 6 in. c.i. main from 8th and Main Sts. north to river, thence 1¼ mi. along Indiana Ave., east ¾ mi. and south to river, furnishing fire protection for new addition. $80,000. M. H. Douney, city engr.

Minn., Robbinsdale — Making plans waterworks system, artesian wells and several miles of mains. $80,000. J. W. Shaffer & Co., 916 New York Life Bldg., Minneapolis, engrs.

N. D., Carrington—Voted $15,000 bonds constructing new unit at city well; new well to be drilled and pump outfit complete except engine to be installed. C. C. Carnahan, city aud. Engineer not announced.

Mo., Harrisonville — Election June 3, $100,000 bonds waterworks and distribution system.

Tex., Beaumont — Magnolia Petroleum Co., Magnolia Bldg., Dallas, making plans fifteen 25 x 40 ft. pump houses, concrete and steel, for pipe line, also pumping machinery for same. $150,000. Private plans. See item under "Unclassified."

Ark., Blytheville—Consumers Water Co. having preliminary plans prepared extending water distribution system. $15,000 to $20,000. Private plans.

Okla., Avant—Plans new wells, pumps, 4,500 ft. 6 and 8 in. c.i. pipe. $30,000. Holway Engr. Co., Wright Bldg., Tulsa, engrs.

Okla., Heavener—Voted $45,000 bonds dam, pipe line, pumping station, ponds, valves and drainage system. J. M. Page, City Hall, Oklahoma City, engr. Noted Feb. 7.

Ont., Chippawa—Making plans filtration plant. $30,000. A. W. Connor, 1005 Royal Bank Bldg., Toronto, engrs. Prices wanted on all materials.

Waterworks (Continued)

BIDS DESIRED

N. Y., New York—June 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in White Plains Rd., Morris Lane, Barrett, Bolton, Purdy and East 172nd Sts., Gildersleeve, Husson, Ludlow, Olmstead, Pugsley, Waterbury, Bryant, Fowler, Gleason, Leland, Noble, Wallace, Balcom, Brinsmade, Buttrick, Calhoun, Emerson, Graff, Harding, Hosmer, Huntington, Lawton, McDowell, Miles, Quincy and Robinson Aves., Bronx Boro.

N. J., Pennington — June 2, by Boro Council, 1,510 ft. 6- to 8-in. c.i. mains, hydrants, etc. $20,000. H. L. Laning, 103 South Main St., engr.

N. C., Durham—June 26, by Mayor and Council, dam and impounding reservoir, on Flat River, etc. W. M. Platt, Durham, engr.; adv. E. N.-R. May 29.

N. C., Weldon — June 3, by W. W. Wiggins, mayor and Bd. Comrs., brick and concrete pumping station, filter house and filter tubs, concrete coagulating basin, concrete reservoir, filter plant equipment, steel wash water tank and tower, brick and concrete auxiliary station and motor driven centrifugal pumps and accessories. G. W. White & Co., Durham, engrs.

La., Coushatta — June 11, by E. T. Archer & Co., 1010 Merchant Bldg., Shreveport, waterworks, sewers and gravel paving.

La., Glenmora—June 17, by J. C. Calhoun, mayor, and Bd. Aldermen, waterworks system. H. A. Mentz, Magnolia, Miss., consult. engr.

Tenn., Lewisburg — June 19, by City Comrs., City Hall, addition to water system. P. H. Norcross, 1404 Candler Bldg., Atlanta, Ga., consult. engr.; adv. E. N.-R. May 22.

O., Garfield Heights (Bedford P. O.)— June 6, by village, mains in various streets. $50,000. R. F. Munz, Town Hall, engr.

Mich., Jackson—July 2, by City Clerk, rein.-con., brick and steel high service pumping station. J. E. Whittaker, city mgr.; adv. E. N.-R. May 29.

Wis., Athens — June 12, by A. A. Kreutzer, village clk., laying 16,970 ft. 6 and 8 in. water mains, 40,000 or 50,000 gal. tank, 90 or 100 ft. tower, pumping station, well house, two 300 g.p.m. centrifugal pumps with motor and engines, one 300 g.p.m. deep well centrifugal vertical shaft pump, 16,020 ft. 6- to 12-in. vitr. sewers, sewage disposal tank, etc. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted Sept. 13.

Wis., Kimberly—June 4, by H. W. Langenberg, village clk., 20,732 ft. 6- to 12-in. c.i. pipe, drilling 600 ft. well, 100,000 gal. rein.-con. reservoir and brick pump house, 100,000 gal. steel tank on 110 ft. steel tower, etc. $100,000. E. A. McMahon, City Hall, Menasha, engr. Noted May 15.

Calif., Hawthorne — June 9, by S. V. Fraser, city clk., 1,350 ft. 12 in., 2,800 ft. 10 in., 4,700 ft. 8 in., 10,500 ft. 6 in., 22,000 ft. 4 in. c.i. pipe, 20,000 lb. 6 in., and 10,000 lb. 4 in. c.i. fittings; two 12 in., two 10 in., eighteen 6 in., thirty 4 in. and six 2 in. gate valves; 3,000 ft. 2 in., 2,000 ft. 1 in. and 7,000 ¾ in. standard screw pipe, etc. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

BIDS RECEIVED

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., furnishing two 72 x 72 in., and two 72 x 135 in. sluice gates, from Michigan Valve & Fdry. Co., 3631 Parkinson Ave., Detroit, Mich., $9,920. Noted May 8.

N. J., Avon-By-Sea—Boro Council, May 13, drilling wells, from Sickle Water Production Co., Aurora, Ill., $48 per gal. of 600 gal. Noted May 8.

Pa., Phila.—Bureau Water, Dept. Pub. Wks., City Hall, waterworks improvements, Contr. 668, from Central Fdry. Co., 41 East 42nd St., New York City, $99,560; Contr. 669, from J. J. McHugh, 1617 Race St., $105,665; Contr. 680, from Service Supply Corp., 20th aand Venango Sts., $9,210. Noted May 1.

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., May 12, from H. E. Miller Contg. Co., 938 South High St., mains as follows: 2,460 ft. 4- to 8-in. mains in Broad St., $6,899, 822 ft. 6 and 8 in. mains in Powell Ave., $2,451, 780 ft. 6 and 8 in. mains in Fair Ave., $2,101, 298 ft. 6 and 8 in. mains in Main St., $869, 1,720 ft. 6 and 8 in. mains in Remington Rd., $3,708, 4,110 ft. 6 and 8 in. mains in Stanwood Rd., $6,521, 3,330 ft. 6 and 8 in. mains in Hartley Rd., $7,124. Noted May 1.

O., Cleveland — Dept. Pub. Utilities, Ridge Rd. main, Sect. 2, from J. Kalill & Jackson Co., 621 Bangor Bldg., $39,222. Noted May 8.

Wis., Milwaukee—Dept. Pub. Wks., 14,143 ft. 6-16 in. c.i. main in various streets, from Wenzel & Henoch, 498 27th St., $20,800.

Wash., Bellingham—City Comrs., high line water main from Lake Whatcom to city, 2,000 ft. 42 in., 500 ft. 36 in. and 500 ft. 30 in. c.i. pipe, from Pacific Lock Koint Pipe Co., Bellingham, $33,250. Engrs. est. $45,000.

CONTRACTS AWARDED

R. I., Providence — Purification works and portions of Scituate Aqueduct, Contr. 30, to Winston Co., 240 Fair St., Kingston, N. Y., $1,799,210, engrs. est. $2,000,000. Other bidders as follows: Wilson & English Constr. Co., 50 Church St., New York, N. Y., $2,118,450, Whiting-Turner Constr. Co., 404 Stewart Bldg., Baltimore, Md., $2,147,440, Simpson Bros. Corp., 77 Summer St., Boston, Mass., $2,153,425 Phillipsburg Constr. Co. 15 North Bway., Yonkers, N. Y. $2,176,800.

N. Y., Whitehall—Bd. Village Trustees, furnishing c.i. pipe, Div. A, hauling and laying pipe, building small concrete dam, earth dam, dike and distributing reservoir, Div. B, to J. J. Fitzpatrick & Sons, Plattsburg, $97,000. Noted Apr. 24.

N. J., Maple Shade — Furnishing 770 tons 4, 6 and 8 in. c.i. pipe to R. D. Wood, 400 Chestnut St., Phila., Pa., laying pipe to W. G. Fitz Co., West Orange, $32,000. Noted Apr. 17.

Md., St. Michaels—Comrs., 100 m.g. tank and demolition of existing tank, to Chicago Bridge & Iron Wks., 30 Church St., New York City, $7,100 and $600 respectively. Noted Apr. 24.

O., Cincinnati — Director Pub. Serv., reservoir Eastern Hills, 3,050 lin.ft. 8- to 30-in. iron pipe 13,000 sq.yd. gunite, 500 sq.yd. cement walks, 18,000 cu.yd. rein.-con., 70,000 cu.yd. earth excav., etc., to M. Penker & Sons, 123 Valencia St., $579,462. Engrs. est. $720,000. Noted May 8.

O., Garfield Heights (Cleveland, P. O.)— Mains in various streets, to D. Rossi-Marceletti Co., 13701 Benwood Ave., Cleveland, $60,000. Noted Apr. 24.

WATER MAIN—CLEVELAND, OHIO

Following are lowest three bids opened by Dept. Pub. Utilities, Div. of Water, May 7, for furnishing and laying Ingersoll Rd. Main, Baldwin-Fairmount Project, Contr. No. 33-A, (A) Winterbottom-Connelly Co., 2644 Southington Rd., Shaker Heights Village; (B) David Lowensohn, 6795 Wakefield Ave., (awarded contract for lock bar steel pipe); (C) Great Lakes Constr. Co., 2000 Keith Bldg. The unit bids were as follows:

	A	B	C
13,500 cu.yd. excavation	$4.00	$3.75	$4.50
9,400 cu.yd. backfill	1.00	1.15	1.30
20 M. ft. B.M. lumber and wooden sheeting, left in place	30.00	50.00	45.00
995 ton furnishing and laying cast iron, straight, bell and spigot pipe	75.00	78.00	85.00
12 ton furnishing and laying cast iron, bell and spigot, standard fittings, complete	200.00	220.00	275.00
30 ton furnishing and laying cast iron, bell and spigot, special fittings, complete	210.00	220.00	300.00
10 ton furnishing and laying cast iron, flanged fittings, complete	250.00	300.00	315.00
1,875 lin.ft. furnishing and laying 48-in. lock bar or similar steel pipe line, ½ in. thick	.....	27.00	28.00
3,525 lin.ft. furnishing and laying 48-in. lock bar or similar steel pipe line, $\frac{7}{16}$ in. thick	.....	26.00	26.50
1,875 lin.ft. furnishing and laying 48-in. hammer welded or similar steel pipe line, ½-in. thick, (alternate)	21.75	.....	.....
3,525 lin.ft. furnishing and laying 48-in. hammer welded or similar steel pipe line, $\frac{7}{16}$ in. thick (alternate)	19.60	.....	.....
1,875 lin.ft. furnish.ng and lay ng 50-in. riveted or similar steel pipe line, ½-in. thick (alternate)	23.75	27.00	27.70
3,525 lin.ft. furnishing and laying 50-in. riveted or similar steel pipe line, $\frac{7}{16}$ in. thick (alternate)	22.25	26.00	26.20
Setting one 48-in. check valves, furnished by the City	200.00	400.00	150.00
Setting seven 36-in. gate va ves (bell and flanged), furnished by the City	200.00	150.00	60.00
Setting one 30-in. gate valve s (flanged), furnished by the City	200.00	125.00	50.00
Setting five 20-in. gate valves (bell and flanged), furnished by the City	150.00	100.00	35.00
Setting two 16-in. gate valves, furnished by the City	100.00	75.00	25.00
Setting one 12-in. gate valves, furnished by the City	50.00	50.00	15.00
Setting one 8-in. gate valve, furnished by the City	40.00	25.00	10.00
Setting one 6-in. gate valves, furnished by the City	30.00	25.00	10.00
Setting three 6-in. automatic air valves, furnished by the City	80.00	25.00	25.00
90 cu.yd. brick masonry	30.00	35.00	40.00
215 cu.yd. concrete masonry	30.00	35.00	30.00
6,500 lb. steel reinforcement and miscellaneous wrought iron and cast iron	.10	.15	.15
100 lin.ft. furnishing and laying 15-in. D.S. vitrified pipe drains	3.00	3.00	2.00
200 lin.ft. furnishing and laying 12-in. vitrified pipe drains	2.50	2.75	1.50
100 lin.ft. furnishing and laying 10-in. vitrified pipe drains	2.50	2.50	1.50
200 lin.ft. furnishing and laying 8-in. vitrified pipe drains	2.00	1.75	1.00
500 lin.ft. furnishing and laying 6-in. vitrified pipe drains	1.50	1.50	.75
300 lin.ft. furnishing and laying 4-in. vitrified pipe drains	1.00	1.25	.50
2,000 sq.ft. furnishing and laying stone flagging	.30	.33	.33
6,000 sq.ft. furnishing and laying concrete sidewalks	.30	.33	.30
6 sets furnishing and setting 2-in. brass drains; and setting 2-in. valves and valve boxes, furnished by the City	50.00	50.00	25.00
150 lin.ft. furnishing and laying 2-in. galvanized iron pipe	2.00	1.60	1.25
15 tons furnishing and delivering surplus cast iron pipe and fittings	50.00	50.00	50.00
Extended totals using lock bar	.....	$315,115	$336,710
Extended totals using hammer welded	$278,856	.....	.....
Extended totals using riveted Steel	291,948	315,115	335,090
Reduction in price for substitution of steel pipe $\frac{7}{16}$ in. thick, for the cast iron pipe	.....	21,000	23,000
Extended totals using lock bar throughout	.....	*294,115	313,710
Extended totals using riveted steel throughout	.....	294,115	312,090

* Awarded contract.

Wis., Tomah—For 460 ft. well and pumping equipment, to G. Nelson, Hayfield, Minn.; 80,000 gal. water tank on 100 ft. steel tower, to Pittsburg-Des Moines Steel Co., 38 South Dearborn St., Chicago, Ill. Engrs. est. $15,000. Noted Feb. 14.

Minn., Marietta — Waterworks system, pumping equipment, one 30,000 gal. tank on 100 ft. tower, 700 lin.ft. 2 in., 4,300 ft. 4 in. and 1,200 ft. 6 in. c.i. pipe, 3,300 lb. special castings, pump house, etc., to Bruce-Bickelhaupt Co., Yankton, S. D.; drilling 10 in. well 500 to 300 ft. deep, to L. Maitland, Marietta. Noted Nov. 1.

Minn., Minneapolis—F. S. Gram, city purch. agt., two 7 ton gas locomotives for Water Dept., to W. H. Ziegler Co., 525 South 5th St., $2,790, each. Noted May 22.

Minn., West Concord—Extending mains, etc., 12,204 lin.ft. c.i. pipe hydrants, valves, etc., to W. C. Fraser & Son, Minnesota Transfer State Bank Bldg., St. Paul, $20,480. Noted Apr. 24.

Kan., Coffeyville—City, 2,000 kw. steam turbo generator and 1 surface condenser, to Westinghouse Electric Co., Orear-Leslie Bldg., Kansas City, Mo., $48,477. Noted Apr. 1.

Neb., Pender—For 5,450 lin.ft. 4 and 6 in. pipe, 50,000 gallon reservoir, 2 motor driven centrifugal pumps, etc., to C. Robeck Co., 1537 Park Ave., $14,821. Noted Mar. 27.

Mo., St. Louis—Waterworks intake and concrete engine pits, incl. 64,000 cu.yd. excav., 2,150 tons steel sheet piling, 24,370 cu.yd. rein.-con., 24 sluice gates, etc., to Frazier-Davis Constr. Co., 1170 Arcade Bldg., $1,068,228. Engrs. est. $1,125,000. Noted May 22.

Tex., Ranger—Concrete filtration plant, to Bordeau Bros., Ranger, $30,000.

Ore., Eugene—City, 420,000 gal. earth bank cement lined reservoir, Fairmount Heights, to G. Pyle, Eugene, $17,375. Engrs. est. $25,000.

Wash., Seattle—Bd. Pub. Wks., mains in North 42nd St., et al., LID 3189, to F. N. Badolato, Box 561, $64,920. Engrs. est. $64,196. Noted May 15.

Sewers

PROPOSED WORK

Mass., Quincy—Plans election to vote on $40,000 bonds sewers extensions in various streets. P. F. O'Brien, city engr.

Mass., Roxbury (Boston, P. O.)—Pub. Wks. Dept., City Hall, Boston, plans sewers and watermains in Harrishof St., here. J. A. Rourke, Boston, comr.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., rejected bids May 5, sewers in Sandol St. Will readvertise. Noted May 15.

Va., Richmond—City Council approved $100,000 bond issue for sewers at Hammond Pl., near here.

S. C., Goldville—See "Industrial Works."

Fla., Melbourne—Election June 9, $30,000 bonds, sewerage disposal system.

O., North Canton—Stark Co. (Canton) plans sanitary sewerage system between here and Canton. $200,000. Engineer not selected.

Mich., Detroit — Making plans 789 ft. 12- to 15-in. crock in Lateral 4062, 996 ft. 15- to 24-in. crock in Lateral 4126, 470 ft. 12- to 25-in. crock in Lateral 4127, 6,377 ft. 12- to 24-in. crock in Lateral 4128, 477 ft 12- to 15-in. crock in Lateral 4135, 352 ft. 12 in. crock in Lateral 4138, 1,816 ft. 10 in. crock in Lateral 4139, 1,165 ft. 12- to 15-in. crock in Lateral 4141, 625 ft. 12- to 15-in. crock in Lateral 4112, 1,148 ft. 12- to 18-in. crock, and 3- to 4-ft. cylinder in Lateral 4079. G. Jerome, city engr.

Mich., Royal Oak (branch of Detroit)—Making plans lateral sewers, No. 30, 1,789 ft., No. 31, 6,331 ft., 8 in. vitr. crock, etc. $25,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Lake Zurich—Soon takes bids disposal plant with either sand or stone filters, $20,000, also 1,500 ft. sewer extensions. J. Anderson Co., Inc., Lake Forest, engrs. Noted Feb. 28.

Minn., Robbinsdale — Making plans sewerage system. $100,000. J. W. Shaffer & Co., 916 New York Life Bldg., Minneapolis, engr.

Tex., Dallas—A. G. McAdams, Magnolia Bldg., had plans prepared 2 mi. 12 and 15 in. sanitary sewer in Cedar Crest and Trinity Heights. $28,000. Koch & Fowler, Central Bank Bldg., engrs.

Tex., Merkel—Voted $55,000 bonds, complete sewerage system. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs. Noted May 1.

Wash., Centralia—Making plans extending sewerage system, business section. $100,000. N. W. Avery, city engr. Noted May 1.

Ont., St. Thomas—Making plans disposal plant. $80,000. W. C. Miller, city engr.

Ont., Windsor—Having plans prepared and takes bids in June trunk sewers. $175,000. E. Brian, city engr. Prices wanted on all materials.

BIDS DESIRED

Mass., Framingham—See "Streets and Roads."

N. Y., Brooklyn—June 4, by E. Riegelman, boro pres., Boro Hall, repairing relief sewers in Colonial Rd., Mansfield Pl., 65th, 32nd and 68th Sts., 9th, 7th, 12th and Greene Aves.

N. J., Manasquan — June 3, by L. C. Riddle, mayor and Council, extending sewers in various streets. A. B. Appleget, boro clk.; adv. E. N.-R. May 29.

N. C., Sanford—June 5, by W. H. Fitts, mayor and Bd. Aldermen, 21 x 41 x 33 ft., rein.-con. Imhoff tank, rein.-con. dosing tank, 33 ft. diameter, sand filters and sludge bed aggregating one acre. G. C. White & Co., Durham, engrs.

La., Coushatta—See "Waterworks."

Miss., Iverness—June 12, by W. M. Cole, and Bd. Aldermen, sewerage system. H. A. Mentz, consult, engr.

O., Cleveland Heights (Warrensville, P. O.)—June 2, storm and sanitary sewer in Kirkwood Rd. To exceed $25,000. F. A. Pease Engr. Co., Marshall Bldg., Cleveland, engrs.

O., Columbus—June 3, by W. H. Duffy, dir. Pub. Serv., combined sewer in alley north 17th Ave., 3,581 ft. 6- to 24-in. pipe, etc., $10,818; sanitary sewer in Iswald Rd., 1,900 ft. 6- and 8-in. pipe, etc., $4,206.

O., Garfield Heights (Bedford P. O.)—June 6, by village, sewers in various streets. R. F. Munz, Town Hall, engr.

Mich., Royal Oak — June 10, by City Clerk, sewage pumping station and disposal works, 2 m.g. capacity. Hoad, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs.; adv. E. N.-R. May 29.

Wis., Athens—See "Waterworks."

BIDS RECEIVED

N. J., Orange—G. C. Bergen, purch. agt. Essex Co., Court House, Newark, 5,710 ft. 12- to 24-in. rein.-con. storm sewers in Scotland St., from Luce & Tozzi, 321 Central Ave., $25,448. Noted May 15.

Mich., Detroit—Dept. Pub. Wks., 765 ft. 5 ft. 3 in. cylinder Joann Ave. Arm of Joann Ave. Extension Sewer, from Anderson & Campbell, Detroit, $19,801; 2,757 ft. 5 and 6 ft. cylinder Harper Ave. Arm of Ashland Ave. Sewer, from W. Blanck Co., 40 Seven Mile Rd., $53,916.

Wash., Seattle—Bd. Pub. Wks., sewers (a) clay (b) concrete, in Oregon St. et al., from H. Pederson, Alaska Bldg., 8220 ft. 8 in. (a) $2.25 (b) $2.25, 5,231 ft. 10 in. (a) $2.40 (b) $2.40, 2,672 ft. 12 in. (a) $2.65 (b) $2.65, 4,357 ft. 15 in. (a) $3.75 (b) $3.75, 1,200 ft. 18 in. (a) $3.60 (b) $3.60, 1,230 ft. 24 in. (a) $5.10 (b) $5, 2,340 ft. 30 in. (a) $7.25, (b) $7.10, 1,220 ft. 36 in. brick $17.95, 1,055 ft. 34 in. rein.-con. $19.90, 2,090 ft. 48 in. rein.-con. $22.25, 2,770 ft. 72 in. rein.-con. $28.80, 7 flush tanks at $200 each, total $362,552 for clay and $362,078 for concrete.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Kennedy & Smith Inc., 93 Amity St., Flushing, sewer in 7th Ave., $2,163; to J. Gallo, 203 Division St., Brooklyn, sewer in Clermont Ave., $7,830; to J. F. Clancy, 460 Lockwood St., Astoria, sewer in Justice St. $5,251, Lake St. $1,756, 91st Ave. $1,193. Noted May 15.

N. J., Oaklyn—Laying 2½ mi. 8, 10 and 12 in. terra cotta sanitary sewers, to Penna. Eng. & Constr. Co., Real Estate Trust Bldg., Phila., $42,000. Noted May 22.

Ga., Bainbridge—Constructing 4 mi. 3- to 12-in., and 2 mi. 15- to 36-in. sewers, to Dysard Constr. Co., Austell Bldg., Atlanta, $61,170. Noted Apr. 24.

O., Cleveland—For 980 ft. 5 ft. concrete sewer in Ridge Rd., to Joseph, Kalill & Jackson, Bangor Bldg., $29,351; 1,045 ft. 12- to 24-in. vitr. tile sewer in East Blvd., to C. Jackson, 1318 East 84th St., $13,607; 1,450 ft. 12- to 24-in. vitr. tile sewer in East 143rd St., to Kassouff & Co., 3182 West 25th St., $12,169; sewers in Highland Rd. and Thrush Ave., to G. F. Randall, Lorain, $13,716 and $4,667 respectively; in Abell Ave., 2 sections, to Hanna & Michael, 2457 East 55th St., $14,946; in Kazimer Ave. to W. McDowell & Son, 10309 Miles Ave., $14,546; in Rosewood Ave., to S. N. Khury, 3511 Walton Ave., $4,668. Noted May 22.

Mich., Royal Oak—R. B. Fleming, city clk., 6,034 ft. sanitary sewer in Lateral 24, to Hammen & Co., 4612 Woodward Ave., Detroit, $30,992; 5,189 ft. in Lateral 28, to Liberty Constr. Co., 1026 Dime Savings Bank Bldg., $31,917; 5,920 ft. in Lateral 29, to J. DePonio, Royal Oak, $13,000. Noted Apr. 24.

Neb., Omaha—City Council to Omaha Sewer Constr. Co., 301 Karbach Block, sewers in Dist. 863, 1,500 lin.ft. 8 in., 2,500 lin.ft. 12 in., 1,630 lin.ft. 15 in., 440 ft. 18 in., 440 ft. 24 in., 360 lin.ft. 27 in. vitr. clay pipe, 1,090 ft. 3- to 4-ft. 6 in. rein.-con. pipe, etc., $21,932, Dist. 850, 1,295 lin.ft. 8 and 12 in. pipe $1,849, Dist. 848, 660 lin.ft. 12 in. vitr. clay pipe $1,055; to A. Dobson Co., 809 1st Natl. Bank Bldg., Lincoln, Dist. 843, 4,430 lin.ft. 8- to 24-in. vitr. clay pipe, 550 lin.ft. 30 and 36 in. rein.-con. pipe, $10,972, Dist. 856, 2,370 lin.ft. 8 in., 1,000 lin.ft. 10 in., 2,740 lin.ft. 12 in., etc., vitr. clay pipe, 995 lin. ft. 54 and 60 in. rein.-con. pipe, $23,321; to J. P. Connelly, World Herald Bldg., Dist. 855, 1,250 lin.ft. 8 in., 4,040 lin.ft. 12 in., 540 lin.ft. 15 in., 390 lin.ft. 18 in., 350 lin.ft. 21 in., 1,240 lin.ft. 24 in., 630 lin.ft. 27 in., vitr. clay pipe, 375 lin.ft. 36 and 42 in. 2-ring brick sewer, $20,662; to J. Jensen, Omaha, Dist. 849, 1,458 lin.ft. 8- to 18-in. vitr. clay pipe, $2,537; to G. Carlson, Omaha, Dist. 846, 945 lin.ft. 8- to 15-in. vitr. clay pipe, $1,433, Dist. 859, 615 lin.ft. 15 in. vitr. clay pipe, $1,278, Dist. 858, 525 lin.ft. 8 and 15 in. vitr. clay pipe, $890; to J. S. Harrington, 3705 North 18th St., Dist. 852, 1,240 lin.ft. 8- to 15-in. vitr. clay pipe, $1,910, Dist. 847, 475 lin.ft. 12 in. vitr. clay pipe, $604, Dist. 862, 1,560 lin.ft. 12 and 15 in. vitr. clay pipe, $2,294, Dist. 861, 780 lin. ft. 8 and 18 in. vitr. clay pipe, $1,273, Dist. 860, 1,135 lin.ft. 8 and 12 in. vitr. clay pipe, $1,521, Dist. 851, 942 lin.ft. 8 and 12 in. vitr. clay pipe, $1,243. Noted Apr. 24.

Neb., Omaha—Vitr. clay sewers in Dist. No. 854, to Jones Eng. & Constr. Co., 315 Courtney Bldg., $341,632. Noted Apr. 17.

Mo., Milan — Improving Sanitary Sewer Dist. 2, incl. 3¾ mi. 6, 8 and 10 in. vitr. clay sewer, 1,000 ft. 4 in. c.i. pipe for ejector station and disposal plant, etc., greater part of trenching 4-6 ft. deep, to Gjellefold-Chapman Constr. Co., Forest City, Ia.

Ark., Little Rock — See "Streets and Roads."

Tex., Marshall—Will lay 5 mi. 6, 8 and 10 in. sewers, by day labor. $25,000. M. Ramsay, city engr. Noted May 15.

Tex., Waco—For 4,500 ft. 6 and 8 in. sewer pipe, to Texarkana Pipe Wks., Texarkana, $6,000. Noted Jan. 10.

Wash., Hoquiam — Sewers in East Hoquiam Dist., to Holmlund & Forsberg, Hoquiam, $36,517 for concrete. Noted May 1.

Ont., Fort Erie—For 6 mi. sewers in various streets, to F. F. Fry Co., 43 Scott St., Toronto, $126,000.

Waste Disposal

BIDS DESIRED

Pa., Sewickley—June 9, at office of C. Hiteshew, boro mgr., garbage incinerator; adv. E. N.-R. May 29.

CONTRACTS AWARDED

N. Y., Rockaway Beach (Ind. Sta. Far Rockaway)—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Long Island City, constructing and completing building and runway furnaces, appurtenances and chimney of Rockaway Beach Destructor, here, to Hudson City Eng. & Constr. Co., 25 Hunterspoint Ave., Long Island City, $298,000. Noted May 8.

Ill., Joliet—Garbage incinerator, 35 tons daily capacity, to Joseph Goder Chicago Incinerating Co., 320 East North Water St., Chicago, $42,500.

Bridges

PROPOSED WORK

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, rejected bids 2 concrete girders on State Route 23, Sect. 4B, LaSalle Co. Noted Feb. 21.

Missouri — State Hy. Dept., Jefferson City, plans 80 ft. steel truss and five 30 ft. rein.-con. deck girder spans, etc., over Castile Creek, Clinton Co.; 60 ft. steel truss and five 20 ft. rein.-con. slab spans, etc., over Third Fork Platte River De Kalb Co.; 90 ft. steel truss and six 20 ft. rein.-con. slab spans, etc., over Ramsey Creek Diversion Channel, Scott Co.; two 10 ft. rein.-con. slab spans, etc., over stream, St. Clair Co.; 80 ft. steel truss span, etc., over Cooper Creek, Henry Co.; 70 ft. steel truss and seven 20 ft. rein.-con. slab spans, etc., over Cain Creek, Butler Co.; two 12 ft. rein.-con. slab spans, etc., over stream, also 100 ft. steel truss and two 35 ft. rein.-con. deck girder spans, etc., over Joachim Creek, Jefferson Co.; three 40 ft. rein.-con. deck girder spans over Pin Oak Branch and 30 ft. rein.-con. deck girder span, etc., over Wiggins Creek, Gasconade Co.; two 20 ft. rein.-con. slab spans, etc., over Wet Fork Creek and two 20 ft. rein.-con. slab spans over Wolf Creek, Wayne Co.; four 16 ft. rein.-con. slab spans, etc., over Dry Creek, St. Francis Co.; 40 ft. rein.-con. deck girder span, etc., over Honey Creek, and 40 ft. rein.-con. deck girder span, etc., over Little Honey Creek, Springfield Co.; twenty-two 25 ft. I-beam spans, etc., over overflow of Grand River and Shoal Creek, Livingston Co. B. H. Piepmeier, state highway engr.

Missouri — State Hy. Dept., Jefferson City, rejected bids Apr. 22, three 20 ft. rein.-con. slab spans, etc., over Long Branch, five 20 ft. rein.-con. slab spans, etc., over overflow Lamine River, both Cooper Co.; 80 ft. steel truss span, etc., over Niangua Creek, and 25 ft. rein.-con. deck girder span, etc., over North View Branch, both Webster Co. Noted May 8 and 15.

Calif., Sacramento—Sacramento Co. rejected bids, bridge over Paintersville Slough. Noted May 22.

Ont., Georgetown—Esquesing Twp. plans bridge, here. $50,000. R. Smith, Oakville, engr.

BIDS DESIRED

S. C., Saluda—See "Streets and Roads."

Florida—June 10, by State Rd. Dept., Tallahassee, 705 ft. and 60 ft. timber bridges, Project 534, Rd. 24, Brevard Co.; 405 ft., 45 ft. and 30 ft. timber bridges, Project 601, Rd. 4, St. Johns Co. J. L. Cresap, state highway engr.

Ind., Muncie—June 3, by Comrs. Delaware Co., 6 concrete and steel bridges. $74,000.

Bridges (Continued)

Ill., Perryville—June 9, at Court House, Rockford, Mulford Bridge in Cherry Valley Twp., 1¾ mi. from here, seven 65 ft. spans, 18 ft. roadway, 204,500 lb. reinforcing, 1,780 lb. structural steel, etc. $53,-640. A. R. Carter, Rockford, co. supt. highways. G. F. Burch, Div. Highways, Springfield, bridge engr.

Oklahoma—See "Streets and Roads."

Mont., Glendive—June 10, by State Highway Comn., Helena, six 216 ft. steel spans on 6 concrete piers and one abutment pier, concrete with concrete deck, 20 ft. roadway, etc., over Yellowstone River, Federal Aid Project 213, Dawson Co., here. $275,-000. Noted Apr. 24, under "Montana."

BIDS RECEIVED

Maine—State Hy. Comn., Augusta, Emerson Bridge, one 60 ft. concrete clear span, over Missalonsku stream, in Waterville, from Greene & Wilson, Waterville, $24,-515; Thomas Pond Bridge, one 15 ft. 3 in. concrete slab and concrete abutment over outlet of Thomas Pond in, Casco and Raymond, also one 14 ft. concrete span bridge over Jordan River, in Raymond, from E. A. Dekin, Howland, $1,965 and $11,109 respectively. Noted May 15.

Kentucky—State Hy. Dept., Frankfort, repairing bridges, from Henley Constr. Co., Lewisville, Ind., 150 ft. bridge over Cumberland River, Bell Co., 97,800 lb. structural steel, 30,000 ft. creosoted timber, 580 sq.yd. creosoted wood blocks, 4,080 lb. reinforcing, $13,283, 540 ft. Brooklyn Bridge over Kentucky River, Jassamine Co., 48,900 lb. structural steel, 67,500 ft. creosoted timber, $12,923, bridge over Rolling Fork River near New Haven, Larue Co., 62,500 lb. structural steel, 17,-600 ft. creosoted timber, $6,609.

Minn., St. Paul—Ramsey Co., May 19, 892 ft., temporary bridge over Mississippi River at Jackson St., 24 ft. roadway, one 6 ft. sidewalk, all timber except one 92 ft. through plate girder lift span, from W. M. Murphy & Son, 342 Endicott Bldg., $59,254. Noted May 8.

Tex., Corpus Christi—City and Nueces Co. Navigation Dist. 1, combination railroad and highway bridge incl. single leaf bascule and concrete approach spans, etc., across Bay, from Wisconsin Bridge & Iron Co., North Milwaukee St., Milwaukee, $400,000. Noted Apr. 10.

Colorado—State Hy. Dept., Denver, 2,155 ft. bridge over Arkansas River about 6 mi. north Salida, Federal Aid Project 248-A, Chaffee Co., from H. S. Croker, Tramway Bldg., Denver, $27,900. Noted May 8.

Calif., Pasadena — Rein.-con. bridge, Arroyo Seco, Linda Vista Ave., from P. H. Ehlers, 1959 North Raymond Ave., $57,700. Noted May 15.

Calif., Santa Barbara — Supervs. Santa Barbara Co. taking bids and open same about June 3, 5 rein.-con. spans to bridge over Sisquoc River. $30,000. O. H. O'Neill, co. surv.

CONTRACTS AWARDED

Vermont—State Hy. Dept., Montpelier, one 160 ft. steel span bridge over Hoosic River, Federal Aid Project 53, in Pownal, to Jordan, Spooner Corp., 443-445 Bway., Albany, N. Y., $25,352; one 80 ft. steel span bridge, Federal Aid Project 62A, in Middlebury, to Byron, Forman & Riggs, Troy, N. Y., $18,370. Noted May 1.

N. Y. Buffalo—Substructure for Stevenson St. bridge to J. Johnson Constr. Co., 765 Abbott Rd., $37,200, superstructure, to Peckham Constr. Co., Crosby Bldg., $20,900.

Pa., Martinsburg — See "Streets and Roads."

Fla., Inverness — See "Streets and Roads."

Alabama—State Hy. Comn., Montgomery, various concrete I beam bridges, along "Gainesville Detour" road from Eutau to Gainsville, Greene Co., to Lamb & McLemore, La Fayette, $66,060. Engrs. est. $67,000.

Illinois—See "Streets and Roads."

Ia., Creston—Bd. Supervs. Union Co., bridges on Projects 42 and 265, one 90 ft. pony truss, to Lundgren-Reis Co., 65 College St., Des Moines, $16,448; two span, 70 ft. pony truss, to Wicks Eng. & Constr. Co., 418 Polk Blvd., Des Moines, $21,194; 7 box culverts, to J. W. Rusk, Afton, $3,500.

Kan., Oskaloosa—Jefferson Co. 220 ft. steel truss span bridge ½ mi. from Perry, Federal Aid Project 175-A, to Midland Bridge Co., 401 Railway Exchange Bldg., Kansas City, Mo., $48,163. Engrs. est. $53,620. Noted Feb. 28.

South Dakota—State Hy. Dept., Pierre, (**F. A. P. means Federal Aid Project**), to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, Ia., Bridge on F. A. P. 162 A, Haakon Co., 72,651 lb. reinforcing and 167,786 lb. structural steel, $30,362, bridge on F. A. P. 160, Brookings and Moody Counties, 33,841 lb. reinforcing and 125,-967 lb. structural steel, $19,219, bridge on F. A. P. 158 A, Clay Co., 25,916 lb. reinforcing and 111,020 lb. structural steel, $15,001, bridge on F. A. P. 177 A, Pennington Co., 103,064 lb. reinforcing and 78,515 lb. structural steel, $36,971; to H. Pickus Co., 309 Mass Bldg., Sioux City, Ia., bridge on F. A. P. 170 D, Minnehaha Co., 4,407 lb. reinforcing and 21,063 lb. structural steel, $2,716, culverts on F. A. P. 173 B, Faulk Co., 39,381 lb. reinforcing, $15,076; Schreiber Eng. Co., Watertown, bridge on F. A. P. 179 Deuel Co., 8,768 lb. reinforcing and 39,523 lb. structural steel, $5,286, bridge on F. A. P. 95 B, Faulk Co., 4,000 lb. reinforcing, and 14,-745 lb. structural steel, $2,323, bridge on F. A. P. 183 A, Beadle Co., 61,652 lb. reinforcing and 142,150 lb. structural steel, $27,000; to Pioneer Bridge Co., Mitchell, bridge on F. A. P. 164, Brooklings-Moody Counties, 82,915 lb. reinforcing and 189,-513 lb. structural steel, $36,445; to Kinnally & Menge, Huron, culverts on F. A. P. 172 C, Walworth Co., 25,053 lb. reinforcing, $11,267. Noted May 8.

Idaho and Nevada—See "Railways."

FILTRATION PLANT—SPRINGFIELD, MASS

Following are lowest three bids opened by Bd. of Water Comrs., May 5, for addition to filtration plant at Little River Water Supply: (A) P. T. Cox Constr. Co., Inc., 154 Nassau St., New York (awarded contract); (B) Simpson Bros. Corp., 11 Summer St., Boston; (C) E. P. Lupfer Corp., 594 Ellicott Sq., Buffalo. The unit bids were as follows:

	A	B	C
43,000 cu.yd. earth excavation	$1.00	$0.94	$1.40
3,000 cu.yd. trench excavation	2.00	1.88	3.00
2,000 cu.yd. rock excavation	4.50	5.00	5.00
3,000 cu.yd. borrowed excavation	.80	3.76	1.25
27,000 cu.yd. rolled embankment	.45	2.00	.30
25,000 cu.yd. general fill	.20	.75	.90
6 acres seeding	450.00	250.00	150.00
600 cu.yd. reinforced-concrete in reservoir	45.00	30.90	30.00
2,100 cu.yd. reinforced-concrete in sand bins and other structures	29.80	23.50	30.00
4,450 cu.yd. concrete in piers and vaulting	27.00	28.40	30.00
6800 cu. yd. concrete in floors, walls and other structures	18.00	15.10	16.75
200,000 lb. steel reinforcing	.06	.06½	.06
4,000 cu.yd. filter gravel	3.60	2.82	2.00
16,000 cu.yd. filter sand	3.75	2.81	3.50
Vitrified pipe drains (lump sum)	4,200.00	5,630.00	6,000.00
Split tile drains (lump sum)	5,500.00	5,640.00	4,400.00
Furnishing, laying and connecting steel pipes (lump sum)	26,500.00	16,830.00	30,000.00
260 tons placing c.i. pipe, iron pipe, gates, etc.	50.00	26.00	50.00
Sand washers and piping (lump sum)	18,000.00	15,490.00	15,000.00
Building complete (lump sum)	14,000.00	20,030.00	10,000.00
Wiring filters (lump sum)	1,300.00	2,280.00	850.00
15,000 lb. copper flexible joints	.25	.45	.40
Appurtenances (lump sum)	6,500.00	6,770.00	4,200.00
Extended totals	$591,530	$593,460	$608,300

SEWERS AND SEWAGE DISPOSAL PLANT—STROUD, OKLA.

Following are lowest three bids opened by city, Jan. 14, for installing main sanitary sewers and sewage disposal plant, (A) H. L. Cannady Co., Tulsa, (awarded contract); (B) Municipal Excavator Co., 200 East Main St., Oklahoma City; (C) Sherman Machine & Iron Wks., 18-32 East Main St., Oklahoma City. The unit bids were as follows:

	A	B	C
Sewage disposal plant (lump sum)	$14,000.00	$18,500.00	$14,500.00
899 cu.yd. earth excavation (disposal plant)	.70	.50	.75
234 cu.yd. loose rock excavation (disposal plant)	1.00	1.50	1.25
156 cu.yd. solid rock excavation (disposal plant)	5.00	3.00	2.50
1,430 ft. 8 in. vitrified sewer pipe	.45	.48	.60
3,820 ft. 10 in. vitrified sewer pipe	.60	.64	.78
5,140 ft. 12 in. vitrified sewer pipe	.77	.82	.97
550 ft. 15 in. vitrified sewer pipe	1.00	1.14	1.35
80 ft. 10 in. ci. pipe	2.50	2.50	3.60
1,170 ft. excavation, 0-4 ft. cut	.28	.18	.25
3,835 ft. excavation, 4-6 ft. cut	.33	.21	.35
1,990 ft. excavation, 6-8 ft. cut	.42	.31	.45
925 ft. excavation, 8-10 ft. cut	.55	.48	.55
1,355 ft. excavation, 10-12 ft. cut	.90	.78	.65
55 ft. excavation, 12-14 ft. cut	1.20	.86	.91
225 ft. excavation, 14-16 ft. cut	1.40	1.17	1.35
335 ft. excavation, 16-18 ft. cut	1.70	1.40	1.60
615 ft. excavation, 18-20 ft. cut	2.00	1.72	2.35
215 ft. excavation, 20-22 ft. cut	2.25	2.20	2.85
32—6 ft. manholes	60.00	60.00	50.00
69 ft. extra depth manholes	3.50	7.00	6.25
2 combined manholes and flushtanks	150.00	110.00	100.00
2,000 cu.yd. earth fill	.25	.40	.38
2,594 cu.yd. loose rock excavation in trench	1.00	1.40	1.90
1,340 cu.yd. solid rock excavation in trench	5.00	2.50	4.00
10 cu.yd. plain concrete	25.00	20.00	18.00
833.3 lb. reinforcing steel	.06	.06	.07
400 ft. ¾ in. galvanized iron pipe	.35	.40	.35
Extended totals	$42,804	$44,189	$46,236
Engineering, etc., 5%	2,140	2,209	2,312
Extended grand totals	44,944	46,398	48,548

Following are lowest three bids opened by city, Jan. 14, for installing sanitary sewers in Dist. No. 1, (A) H. L. Cannady Co., Tulsa (awarded contract); (B) Gibson & Mitchell, Pauls Valley; (C) Municial Excavator Co., 200 East Main St., Oklahoma City. The unit bids were as follows:

	A	B	C
2,210 ft. 6 in. vitrified pipe	$0.30	$0.31	$0.68
16,500 ft. 8 in. vitrified pipe	.50	.51	.78
3,940 ft. 10 in. vitrified pipe	.65	.70	.90
48 ft. 8 in. cast iron pipe	2.25	2.33	2.50
70—6x6 wyes	1.00	1.00	1.10
380—6x8 wyes	1.15	1.10	1.70
120—6x10 wyes	1.30	1.20	2.50
400 ft. excavation 0-4 ft. cut	.35	.32	.40
5,140 ft. excavation 4-6 ft. cut	.37	.44	.44
9,420 ft. excavation 6-8 ft. cut	.45	.55	.52
7,225 ft. excavation 8-10 ft. cut	.62	.75	.65
415 ft. excavation 10-12 ft. cut	1.00	1.18	.80
53—6 ft. manholes	60.00	65.00	65.00
69 ft. extra depth manholes	5.00	6.00	8.00
3 flushtanks	130.00	130.00	110.00
600 ft. ¾ in. galvanized iron pipe	.40	.32	.50
1,675 cu.yd. loose rock excavation in trench	1.20	2.50	1.40
2,640 cu.yd. solid rock excavation in trench	6.00	4.00	2.75
135 cu.yd. earth fill	.60	.50	.50
3 cu.yd. plain concrete	28.00	20.00	25.00
300 lb. reinforcing steel	.07	.05	.07
Extended totals	$47,313	$47,114	$47,507
Engineering, etc., 5%	2,366	2,356	2,375
Extended grand totals	49,679	49,469	49,883

Dams

PROPOSED WORK

N. Y., Ballston Spa—See "Waterworks."

N. C., Durham—See "Waterworks."

CONTRACTS AWARDED

Tex., Denison—Repairing Waterloo Dam, 225,000 cu.yd. earth excav., 12,000 ft. sheet piling, to Brooks Constr. Co., Andrews Bldg., Dallas, $30,000.

Railways

PROPOSED WORK

Texas—Texas Electric Ry. Co., Interurban Bldg., Dallas, plans extending East Waco St. car lines to Bellmeade Shops of Missouri, Kansas & Texas R.R. $50,000. P. R. Brown, Interurban Bldg., ch. engr.

Quebec—Montreal Tramways Co., Craig St. W., Montreal, plans to lay 1.497 mi. 115 lb. rails in Shakespeare Rd. from Cote de Neiges. $42,000. P. A. N. Seurot, ch. engr.

CONTRACTS AWARDED

Missouri—Bd. Pub. Serv., 208 City Hall, St. Louis, standard gauge railroad, etc., at Howards Bend, St. Louis Co., to Industrial Track Constr. Co., Granite Bldg., St. Louis, $26,562. Noted May 22.

Idaho and Nevada—Northern Pacific Ry., Railway Bldg., St. Paul, Minn., and Oregon Short Line R.R., Deseret News Bldg., Salt Lake City, Utah, 100 mi. cut-off from Rogerson, Idaho, to Wells, Nev., incl. sidings, roadbed, heavy grading, and 2 or 3 large bridges, to Utah Constr. Co., Phelan Bldg., San Francisco, Calif., $3,500,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

Fla., Melbourne—See "Unclassified under Park, etc."

Neb., Omaha—Park Dept. received no bids May 13, excavating at Levi Carter Park. Will re-advertise. Noted May 8.

Ind., Peru — Peru Flood Control Dist. having preliminary plans prepared earthwork on levee, concrete walls, drainage ditches, etc. $350,000. T. N. Jacob, Railway Exch. Bldg., St. Louis, Mo., engr.

Ind., Princeton—Patoka-Wabash Levee Dist., Peru, having preliminary plans prepared, 7,000,000 cu.yd. levee and ditch work for drag line, 2 pumping stations with three 36 in. centrifugal pumps and oil engines. $1,250,000. T. N. Jacob, Railway Exch. Bldg., St. Louis, Mo., engr.

Tex., Sierra Blanca—Hudspeth Co. Conservation and Reclamation Dist. 1, voted $700,000 bonds new construction. S. R. Mitchell, Sierra Blanca, engr.

BIDS DESIRED

New York—June 11, by Salt Water Bays Comn., at office State Engineer, Telephone Bldg., Albany, excavating channel in Shinnecock-Peconic Canal and Peconic Bay, Suffolk Co. D. B. LaDu, chn. adv. E. N.-R. May 29.

Miss., Corinth—June 9, by E. B. Mitchell, clk. Alcorn Co., constructing 2.17 mi. Parmitchie D. D. 2, 8 ft. bottom width, 1 to ½ ft. slope, 7.5 ft. depth, 30,000 cu. yd. excav., 6 acres clearing; 6 mi. Hatchie D. D. 2, 10 ft. bottom width, 1 to ½ ft. slope, 9 ft. depth, 150,000 cu.yd. excav., 50 acres clearing, 7 mi. haul.

Tenn., Newbern—June 14, by Bd. Dirs. Cypress Creek D. D., Dyer Co., 1 main canal and 1 lateral totaling 4 mi., 6 mi. southeast of here. L. O. Brayton, Dyersburg, engr.

Wash., Vancouver — June 7, by Bd. Comrs. Clarke Co., dikes, dams, ditch excav., clearing, pumping plant machinery, etc., in Diking Impvt. Dist. 3. $520,000. W. G. Brown, Yeon Bldg., Portland, Ore., engr. Noted May 1.

BIDS RECEIVED

N. Y., Cohoes—R. K. Fuller, comr. Canals & Waterway, 55 Lancaster St., Albany, excavating tail race, etc., for Crescent power house, on Mohawk River, near here, from Dunbar & Sullivan Dredging Co., Albany, $27,244. Engrs. est. $27,600. Noted Apr. 24, under "New York."

Tex., Corpus Christi—City and Nueces Co. Navigation Dist. 1, dredging for deep water channel, 3,100,000 yd. earth excav., from Reynolds Dredging Co., New Orleans, La., $516,400. Noted Apr. 10.

CONTRACTS AWARDED

Mass., Boston—Dept. of Pub. Wks., Div. Waterways and Public Lands, State House, dredging about 28,500 cu.yd. material from areas north of steamboat wharf in Nantucket Harbor, to H. F. Gerrish, 101 Tremont Bldg., Boston, at $0.67 yd. soft deposit, and $35 yd. boulders. Engr. est. $26,000.

N. J., Camden—Dredging in front of Municipal Pier at Spruce St. to depth of 25 ft., 25,000 to 30,000 cu.yd. excav., to Amer. Dredging Co., Mariner & Merchants Bldg., Phila., $0.30 per cu.yd.

Fla., West Palm Beach—Pahokee D. D., H. Vivian, secy., Pahokee, canals to drain 20,000 acres, here, to N. A. Campbell, West Palm Beach, $100,000.

La., Lake Charles — Police Jury Calcasieu Parish, Court House, constructing Calcasieu Parish Navigation Channel, 4.83 mi. Sect. 4, from Sta. 322 to 577, 4,400,000 cu.yd. excav., and 2.26 mi. Sect. 6 from Sta. 58 to 118, 2,100,000 cu.yd. excav., to United Dredging Co., 233 Bway., New York City, $399,600 and $208,740 respectively.

Streets and Roads

PROPOSED WORK

Mass., Boston—Park Dept., plans improving Franklin Park and constructing driveway from Forest Hills St. to Columbia Rd. $53,000.

N. Y., Cortland—Bd. Pub. Wks. plans paving Bway., $9,625, South Church St., $21,450, and Evergreen St. $13,920.

N. Y., St. Johnsville—Village Bd. had plans prepared rein.-con. paving Averill, Washington, Union, Monroe and East Liberty Sts. $52,000. O. Williams, village pres.

N. Y., Watertown — Common Council having plans prepared concrete paving East Main St. To exceed $25,000. P. B. Sutton, city engr.

Fla., Moore Haven—Glades Co. voted $252,000 bonds constructing highway from Hendry Co. line through Clewiston to Highlands Co. line, Lake Okechobee to Kissimmee River; $25,000 bonds roads in Tasmania Rd. and Bridge Dist.

Ala., Birmingham — Plans paving with sheet asphalt of 1-in. binder course and ½-in. wearing surface on 5-in. concrete 7 blocks 2nd Ave. South and 16th St. South, 50 ft. $56,700.

Miss., Waynesboro—Making plans grading and gravel surfacing about 9 mi. Boyce-Howannee Rd. R. R. Prescott and R. C. Atkinson, road comrs.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, having surveys made grading and surfacing 12 mi. Kingston-Knox Co. line Rd., 18 ft., J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids surfacing with bituminous macadam 3.5 mi. Fayetteville-Alabama State line Rd., 16 ft., Lincoln Co.; with bituminous macadam on crushed stone 1.5 mi. near Hartsville, 14 ft., Trousdale Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, soon takes bids gravel surfacing 9.8 mi. Newport-North Carolina State line Rd., 18 ft., Federal Aid Project 23, Cocke Co.; grading and surfacing 10 mi. Rogersville-Pressmans Home Rd. 16 ft., Hawkins Co. J. G. Creveling, highway engr. Noted May 22.

Tenn., Erwin—Unicoi Co. Court plans constructing Irwin-North Carolina State line Rd. up Spivy Creek. $30,000.

Tenn., Greeneville—Greene Co. election June 14, $200,000 bonds improving and resurfacing roads.

Tenn., Memphis—City plans widening, grading and paving Jackson Ave., 14,000 cu.yd. excav., 140 lin.ft., No. 2 and 7,100 lin.ft., No. 3, concrete curb and gutter, 19,850 sq.yd. gravel. $60,141. C. C. Pashby, city clk.

Ky., Inez — Martin Co. plans election $150,000 bonds for roads.

O., Youngstown — Soon takes bids improving north half of Woodbine St., brick. $26,000. G. Turner, city engr.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, rejected bids paving 5.28 mi. State Route 23, Sect. 4, LaSalle Co. Noted Feb. 21.

Ill., Galesburg—Bd. Local Impvts. soon takes bids grading, paving, curbing, etc., 16 bocks South Pearl, East 3rd, North Prairie and Seldon Sts. $88,778. A. L. Richey, City Hall, engr.

Ill., Highwood—Soon takes bids grading, concrete surfacing and integral curb on various streets, $91,997. In addition plans sewer, water and sidewalk improvement. $7,310. J. Anderson Co., Inc., Lake Forest, engrs.

Ia., Atlantic—Making plans paving about 10 blocks 9th St. $35,000. T. E. Nichols, city clk.

Ia., Des Moines—Polk Co. election June 2, $1,500,000 bonds improving roads. F. O. Laing, co. engr.

Ia., Muscatine—Muscatine Co. election June 2, $1,350,000 bonds improving roads. F. P. G. Halbfass, co. engr.

Ia., Tipton—Cedar Co. election in November $2,000,000 bonds hardsurfacing 76 mi. roads. H. L. Phelps, co. engr.

Ia., Vinton—Plans paving, etc., 11 blocks, 8th Ave. and 5th St. W. Winslow, Belle Plaine, engr. $40,000.

Minn., Detroit—Having plans prepared paving, etc., about 10 blocks, Frazee St. and Washington Ave. $35,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Kan., Kansas City—Wyandotte Co. soon takes bids concrete surfacing 2.524 mi. road. O. K. Williams, co. engr.

Kan., Marion—Marion Co. plans grading 8.766 mi. Federal Aid Project 218-A, 28 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engr.

Kan., Marion — Marion Co. takes new bids within 30 days, constructing 4.269 mi. New Santa Fe Trail, Sect. A, Project 216, 28 ft. Former bids rejected. R. K. Walters, Marion, engr. Noted Apr. 1.

Kan., Mound City—Linn Co. plans grading 7.25 mi. Federal Aid Project 215-A, 28 ft. C. E. Kenney, co. engr.

Neb., Omaha—Plans paving Dists. No. 2564-65-66-67-68-69-71-74-82-85-86-89-91. To exceed $100,000. H. Beal, city engr.

South Dakota — State Highway Dept., Pierre, rejected bids grading Federal Aid Project 130B, Custer Co. Noted May 8.

S. D., Huron—Plans paving 8 blocks, East 3rd St. $30,000. T. K. White, city engr. Noted Jan. 10.

S. D., Watertown—Plans paving 20,000 to 25,000 sq.yd. various streets. $75,000. W. F. Cochrane, city engr.

Missouri — State Hy. Dept., Jefferson City, rejected bids grading 4.944 mi. Marshfield West Rd., 4.793 mi. Marshfield North and West Rds., 3.892 mi. Marshfield North Rd., 3.811 mi. Marshfield North Rd., all Webster Co., 3.12 mi. St. Louis-Festus Rd., St. Louis Co.; gravel surfacing 4.553 mi. Jefferson City-Kansas City Rd., Morgan Co., 1.822 mi. Risco East Rd., New Madrid Co., 2.835 mi. Rolla South Rd., Phelps Co., 5 mi. Stockton-Fairplay Rd., Cedar Co.; concrete surfacing 3.12 mi. St. Louis-Festus Rd., St. Louis Co. Noted May 8 and 15.

Missouri—State Hy. Dept., Jefferson City, plans grading 17.152 mi. Kansas City-St. Louis Rd., 34 ft., Warren Co., 2.889 mi. Taskee Rd., 26 ft., Wayne Co., 1.15 mi. Chillicothe Rd., 30 ft., Livingston Co., 3.349 mi. Noel South Rd., 26 ft., McDonald Co., 4.214 mi. Ozark East Rd., 26 ft., Christian Co.; gravel surfacing 6.984 mi. Caruth-Hornersville Rd., and 3.51 mi. Arbyrd South Rd., both 12 ft., Dunklin Co., 3.289 mi. Zebra East and West Rd., 12 ft., Camden Co., 4.838 Eldon East Rd., 12 ft., Miller Co.; concrete paving 1.301 mi. Kansas City-Porkville Rd., 18 ft., Clay Co., 4.834 mi. Kansas City-St. Louis Rd., 18 ft., St. Louis Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans grading 1.138 mi. High Hill-East Rd., Montgomery Co.; 1.301 mi. Kansas City-Parkville Rd., Clay Co.; 1.63 mi. Bismark-Flat River Rd., St. Francois Co. B. H. Piepmeier, ch. engr.

Mo., Carthage—Soon takes bids 16,000 yd. 7 in. concrete paving, 44 ft. E. S. Glenn, city engr.

Ark., Van Buren — Making preliminary plans grading and surfacing with concrete, asphalt, or asphaltic concrete, 40 blocks Dist. 5. W. L. Winters, 311 Merchants Natl. Bank Bldg., Fort Smith, engr.

Tex., Batesville—Zavalla Co. voted $125,000 bonds hard surfacing Precinct 1. N. P. Hunt, co. judge. Noted May 1.

Tex., Dallas—Had plans widening and paving Harwood St. between Main and Bryan St., new width Main to Pacific Sts., 63 ft., Live Oak to Bryant Sts., 60 ft. E. A. Kingsley, city engr. $474,375. E. A. Kingsley, city engr.

Tex., Floresville—Wilson Co. plans 1 in. bituminous topping on gravel 34 mi. San Antonio-Quero Rd. State Highway 16, Rd. Dist. 1, $624,750. F. E. Hess, co. engr.

Tex., Ft. Worth—City Comn. making plans opens bids about July 31st, paving 4½ mi. Camp Bowie Blvd. from Van Zandt to Mineral Wells Pike, 50-60 ft., alternates on standard paving. $450,000. D. L. Lewis, city engr. Noted Apr. 24.

Streets and Roads (Continued)

Tex., Houston—Election June 10, $500,000 bonds permanent paving and $200,000 gravel paving various streets. J. C. McVea, city engr.

Tex., Raymondville—Willacy Co. voted $295,000 bonds permanent paving highways. W. A. McCharen, co. judge. Noted Apr. 24.

Tex., Rock Springs—Edwards Co. making plans gravel surfacing 48 mi. State Highway 41. $404,260. W. E. Simpson Co., Natl. Bank Commerce Bldg., San Antonio, engrs.

Tex., Sabinal—Making plans permanent paving 10 blocks Center St. $40,000. R. P. Rainey, mayor. Noted Apr. 3.

Tex., San Diego—Duval Co. voted $400,000 bonds, permanent paving highways. G. A. Pharr, co. judge.

Tex., Wichita Falls—Wichita Co. voted $500,000 bonds paving Dist. 1, 3 roads radiating from Electra. J. M. Isbelle, co. engr. Noted Mar. 20.

Okla., Muskogee—Withdrew bids which were to be opened May 13, concrete paving 10 blocks Denver Ave. Will readvertise. J. R. Marsh, City Hall, engr. Noted May 8.

Okla., Oklahoma City — Plans grading and paving 4 blocks Park Pl., and McKinley St., 5,600 sq.yd. asphalt, 2,400 lin.ft. curbing, etc. $28,000. B. M. Hart, city engr.

Okla., Sand Springs — Plans improving 13 blocks, 13,000 sq.yd. concrete, 7,900 lin.ft. curbing, 4,600 cu.yd. excav. $65,000. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Wash., Chehalis — City Council takes bids about June 10, concrete paving and cement sidewalks on Main, 3rd, Chehalis, Market Sts., et al. $100,000. E. G. Sturdevant, Chehalis, engr.

Ont., Essex—Plans concrete pavements. $30,000. J. S. Laird, Essex, engr.

Ont., Hamilton—Suburban Area Comn. having plans prepared improving 1½ mi. King and Concession Sts., tar and asphalt penetration. $110,000. H. Lumsden, c/o Comn., City Hall, engr.

Ont., Sandwich—Plans concrete paving Mill, Perry and Felix Sts. $35,000. Prices wanted on materials.

BIDS DESIRED

N. Y., Brooklyn—June 4, by E. Riegelmann boro pres. Boro Hall, grading, curbing and flagging East 13th, East 16th, East 28th, 49th, 67th and 85th Sts., paving East 16th, East 28th, 49th, 67th, 76th and 87th Sts., Foster and 12th Aves., Grace Court; curbing, flagging and paving East 18th St., recurbing 82nd St.

N. Y., Long Island City—June 3, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading and sidewalks space on Court St., Arcadia, Gosman and Hunt Aves., grading, curbing, etc., Maurice and Richard Aves., Opdyke, Siboutsen, 1st, 85th, 86th, 97th 103rd and 123rd Sts.; paving Maurice Ave., Opdyke, 85th, Siboutsen and 86th Sts.; curbing, etc., Hunt Ave.

N. Y., New York—June 3, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., constructing Transverse road carrying the center driveway of Grand Blvd. and Concourse under East Fordham Rd.

N. Y., New York—June 5, by Park Comn., Municipal Bldg., repaving walks in Melrose Park, Bronx Boro. Former bids rejected. Noted May 8.

N. Y., St. George—June 4, by J. A. Lynch, pres. Richmond Boro., Boro. Hall, repaving with bituminous concrete roadway St. Marks, Pl., Richmond and North Burgher Aves.

New Jersey—June 2, by Clementon Twp. Council, White Horse Hotel, Kirkwood, grading and filling 10,552 cu.yd. Linden Ave. in Lindenwold, and 1,120 cu.yd. grading and 13,480 sq.yd. concrete sidewalks. W. P. Houwen, Laurel Springs, engr.

N. J., Atlantic City—June 12, by Bd. Comrs., City Hall, improving portions of Parkside and other avenues. J. W. Hackney, city engr.; adv. E. N.-R. May 29.

N. J., North Caldwell—June 3, by Purch. Agent Essex Co. (Newark), grading and paving with 8 in. rein.con. 6,300 ft. Grandview Ave., here. $78,000. W. A. Stickel, Court House, Newark, engr.

Pa., Shenandoah—June 17, by T. R. Edwards, chn. Street Com., 111 North Jardin St., repairing sheet asphalt streets; adv. E. N.-R. May 29.

Pa., Upper Darby — June 3, by S. F. Rudolph, secy. Upper Darby Twp., 81,000 sq.yd. one course rein.-con. paving Marshall, Garrett and Burmont Rds., also Landsdowne Ave. $250,000. F. A. Damon, Jr., Municipal Bldg., engr.

Maryland—June 10, by State Rds. Comn., Baltimore, concrete paving roads in Cecil, Kent, Queen Annes and Caroline Counties, Contrs. Ce-46, K-25, Q-28 and Co-35 respectively; macadam resurfacing in Harford Co., Contr. H-40; penetration macadam surfacing and concrete shoulders in Baltimore Co., Contr. B-63; gravel surfacing in Anne Arundel Co., Contr. AA-41. J. N. Mackall, chn.; adv. E. N.-R. May 29.

Md., Hancock—June 2, by J. T. Mason, burgess and Comrs. of Hancock, 7,000 sq.yd. concrete or oil bound macadam road, 1,500 cu.yd. grading, 5,400 lin.ft. concrete curb, etc. P. Bowles, engr.

N. C., Morehead City—June 17, by L. Hamilton, mayor and Bd. Comrs., 75,000 sq.yd. paving, etc. R. D. Gladding, Wilson, engr.; adv. E. N.-R. May 29.

S. C., Saluda—June 4, at office Saluda Co. Hy. Comn. improving 9 mi. State Route 24, Federal Aid Project 52-B, 57,600 cu.yd. common and 336 cu.yd. rock excav., 25,896 cu.yd. topsoiling, 2 rein.-con. bridges one three 22 ft. span and other one 43 ft. and five 22 ft. spans. State Highway Engineer, Main St., Columbia.

Louisiana—June 12, by State Hy. Dept. Reymond Bldg., Baton Rouge, grading, etc., 4.23 mi. State Project 406, Amite-Franklinton Highway, Tangipahoa Parish. J. M. Fourmy, ch. engr.

La., Coushatta—See "Waterworks."

Kentucky—June 10, by State Hy. Dept., Frankfort, improving roads, **(F. A. P. means Federal Aid Project, S. P. means State Project)**, constructing and surfacing with waterbound macadam or bank gravel 19.22 mi. Henderson-Madisonville Rd., 18 ft., F. A. P. 34-F, Webster Co., 10 mi. Madisonville-Hopkinsville Rd., 14 ft., S. P. 2-F, Christian Co.; with waterbound macadam 6.1 mi. Elizabethtown-Lietchfield Rd., 12 ft., S. P. 12-G-1, Hardin Co., 4.8 mi. Versailles-Lawrenceburg Rd., 14 ft., S. P. 20-D, Woodford Co., 3.5 mi. Danville-Stanford Rd., 16 ft., S. P. 22-F, Lincoln Co.; reconstructing and surfacing with waterbound macadam 6.5 mi. Emminence-Shelbyville Rd., 14 ft., S. P. 46-D, Henry and Shelby Counties; surfacing 4.67 mi. Richmond-Winchester Rd., 14 ft., S. P. 50-A, Madison Co., 6.1 mi. Lancaster-Richmond Rd., 14 ft., S. P. 25-F-1, Garrard Co., 6 mi. Stanford-Somerset Rd., 14 ft., S. P. 22-G, Lincoln Co., 2.55 mi. Middlesboro-Cumberland Gaps Rd., 14 ft., S. P. 38-A, Bell Co., 4 mi. Danville-Lebanon Rd., 14 ft., S. P. 25-C-1, Boyle Co., 5.4 mi. Nicholasville-Lexington Rd., 14 ft., S. P. 32-B, Jassamine Co., 7.5 mi. Stanford-Somerset Rd., 14 ft., S. P. 22-H, Pulaski Co., 3.2 mi. Sharpsburg-Owingsville Rd., 14 ft., Bath Co. J. S. Boggs, highway engr.

O., Akron—June 16, by W. F. Peters, dir. Pub. Serv., widening and repaving West Market St. from Merriman Rd. to Portage Path. $100,000 or more.

O., Cincinnati—June 6, by Comrs. Hamilton Co., rebuilding 14,690 ft. Eight Mile Rd., 25,000 cu.yd. grading, 70,000 gal. Grade 1 tar, etc., $68,640. E. A. Gast, Court House, engr. Noted May 1.

O., Cleveland Heights (Warrensville, P. O.)—June 2, grading, paving, curbing, etc., Washington Blvd., Mayfield and Oakridge Rds., brick, bituminous macadam, asphaltic concrete or sheet asphalt. To exceed $50,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Columbus—June 3, by W. H. Duffy, dir. Pub. Serv., grading and paving, laying necessary water services and sewer connections, 1,636 ft. alleys west Michigan Ave., west of Harrison Ave. and north of Reinhard Ave., 20 ft., brick $15,527, concrete $12,168, asphalt $6,547; 771 ft. alleys west 4th St. and Hamlet St., 16 ft., brick $4,907, concrete $4,339; 501 ft. alleys north 9th and Reinhard Aves., 15 ft., brick $3,163, concrete $2,796.

Ind., Ft. Wayne—June 10, by Comrs. Allen Co., grading and graveling 17,210 ft. Cassel Rd., 30 ft. wide. $28,861. O. M. Darling, Ft. Wayne, engr. Noted May 22.

Ind., Goshen—June 6, by Comrs. Elkhart Co., concrete paving 5,185 ft. and grading and gravel surfacing 5,261 ft. Twp. RD. C-1, 16 ft. $35,150. C. L. Kinney, Goshen, engr. Noted May 22.

Ind., South Bend—June 9, by Comrs. St. Joseph Co., grading and graveling 3.9 mi. Godshall Rd., 18 ft. $43,401. P. R. Gfillin, South Bend, engr. Noted May 29.

Ind., Vincennes — June 6, by Comrs. Knox Co., paving 12,320 sq.yd. C. L. V. Tucker Rd., concrete on concrete. $26,500. W. D. Hanlon, Vincennes, engr. Noted May 22.

Michigan—June 9, by State Hy. Dept. at office Comrs. Gogebic Co., Bessemer, grading and surfacing State Trunk Line Rd. 12-16, 4,270 cu.yd. excav., 10,331 sq.yd. concrete. G. C. Dillman, Lansing ch. engr.

Michigan—June 9, by State Hy. Dept. at office Comrs. Shiawassee Co., Corunna, grading and surfacing 1.524 mi. State Trunk Line Rd. 21-23, 7,231 cu.yd. excav., 17,910 sq.yd. asphalt, concrete or bituminous concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—June 9, by State Hy. Dept. at office Comrs. Roscommon Co., Roscommon, grading and surfacing State Trunk Line Rd. 14-35, 9,265 cu.yd. excav., 18,946 sq. yd. gravel. G. C. Dillman, Lansing, ch. engr.

Michigan—June 10, by State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading and surfacing 1.453 mi. Federal Aid Project 67, A3, 3,908 cu.yd. excav., 8,370 sq.yd. concrete, and 3,000 lin.ft. storm sewer, grading 5.031 mi. Federal Aid Project 67, A1, 2 and 3, 98,493 cu.yd. excav., 16,807 sq.yd. concrete, 12,683 lb. steel, shaping and surfacing 5.13 mi. Federal Aid Project 78 E1, 54,176 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Illinois — June 3, at office of Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, concrete paving 1.05 mi. State Route 2, Sect. 37X, 18 ft., Ogle Co. F. T. Sheets, ch. highway engr. Bids will be received on same date by City of Oregon, at Oregon, street paving which will widen Sect. 37X. T. W. Clayton, Dixon, city engr. for Oregon. Jobs will not be let separately.

Minn., St. Paul—June 9, by G. J. Ries, aud. Ramsey Co., paving etc. Project 24-52, Dellwood Connection, Lake Ave.-White Bear Rd., 4,506 lin.ft. concrete gutter and 3,832 lin.ft. combined curb and gutter, alternate bids on 20,870 sq.yd. one course concrete, or 18,585 sq.yd. asphaltic concrete wearing surface, 2 in. thick on plain concrete base, etc. $70,000. P. N. Coates, Guardian Life Bldg., engr. Noted Mar. 6.

Kan., Howard—June 24, by clerk Elk Co., grading 3.219 mi. Federal Aid Project 237-A, 2,430 cu.yd. borrow, 136 sq.yd. concrete, 9,338 lb. reinforcing, 652 lin.ft. 24-to 36-in. c.i. pipe, 20,140 cu.yd. earth and 1,234 cu.yd. rock excav., etc. F. L. Appleby, co. engr.

Kan., Independence—June 18, by clerk Montgomery Co., improving 2.81 mi. Federal Aid Project 199-B, 4,444 cu.yd. bor-

ROAD WORK—NEW HAMPSHIRE

Following are lowest three bids opened by State Highway Dept., Concord, Feb. 15, for highway in Derby Township, Rockingham Co., (A) O. Morino, Swampscott, Mass.; (B) Winslow & Cummings, Nashua; (C) Frissell Eng. Co., Gardner, Mass. The unit bids were as follows:

	A	B	C
7,532 cu.yd. excavation	$1.25	$1.50	$1.45
3,449 cu.yd. borrow	1.50	1.50	1.50
655 cu.yd. ledge excavation	4.05	5.00	4.50
1,169 cu.yd. gravel	2.00	2.25	2.90
25,480 sq.yd. one-course reinforced-concrete pavement	2.75	3.00	3.10
24 lin.ft. 12 in. culvert metal pipe	1.00	1.00	1.25
26 lin.ft. 16 in. culvert metal pipe	1.50	1.25	1.25
74 lin.ft. 12 in. reinforced-concrete pipe	1.50	1.50	1.25
30 lin.ft. 18 in. reinforced-concrete pipe	2.00	1.75	1.50
146 lin.ft. 24 in. reinforced-concrete pipe	3.25	2.50	1.75
34 lin.ft. 36 in. reinforced-concrete pipe	5.00	3.00	2.00
2,850 lin.ft. wooden railing	.90	.70	.75
3 cu.yd. plain rubble paving for stream beds	15.00	10.00	15.00
4 cu.yd. first-class concrete	20.00	30.00	35.00
34 cu.yd. second-class concrete	17.00	25.00	28.00
40 cu.yd. cement rubble masonry	20.00	9.00	10.00
554 lb. reinforcing steel bars	.07	.10	.09
3 catch basins	110.00	75.00	100.00
Extended totals	$94,965	$103,139	$105,96

Streets and Roads (Continued)

row, 6,000 cu.yd. channel change, 74,177 gal. applied bituminous, 21,858 lb. reinforcing, 218 ft., 15- to 24-in. corrugated metal pipe, etc. H. K. Hilbard, co. engr. Noted Mar. 31.

Kan., Wichita—June 20 (extended date), by clk. Sedgwick Co., grading and paving 1.261 mi. Federal Aid Project 130-C. M. Roseberry, co. engr. Noted May 8.

Montana — June 10, by State Highway Comn., Helena, grading, etc., 15.79 mi. Federal Aid Project 189 A and B, on Nashua-Fraser Sect. of Roosevelt Hy., Valley Co., 132,287 cu.yd. common, 797 cu.yd. intermediate and 797 cu.yd. rock excav., 13,310 sta.yd. overhaul, 25,581 cu.yd. crushed gravel surfacing, 13,872 lb. reinforcing; alternates, 2,247 lin.ft. 15- to 36-in. corrugated metal culverts, etc., or 2,217 lin.ft. of 15- to 30-in. rein.-con. pipe culverts. $150,000.

Ark., Hot Springs—June 10, by C. Smith, city engr. improving Cedar St., Dist. 72, 1,356 cu.yd. excav., 576 lin.ft. arch concrete, 400 ft. 12- to 24-in. tiling, 1,589 lin.ft. concrete gutter and reset curb, 2,466 lin.ft. curb and gutter, 8,140 sq.yd. concrete paving, etc. Noted May 8.

Tex., Baird—June 20, by V. B. Gilbert, judge Callahan Co., grading and bituminous macadam surfacing 8.84 mi. State Highway 1, Sect. B, Federal Aid Project 52, 18 ft. $157,300. T. H. Webb, co. engr. Noted May 22.

Tex., Pecos—June 18, by J. F. Ross, judge Reeves Co., grading and gravel surfacing 13.25 mi. State Highway 1, Federal Aid Project 390, 18 ft. $121,400. S. S. Posey, co. engr.

Tex., Waxahachie — June 6, by C. T. Spalding, aud. Ellis Co. Rd. Dist. 1, 30 mi. grading, 180,000 cu.yd. excav., etc. $30,000. T. A. Spalding, co. engr.

Colo., Denver—June 3, by Dept. Impvts. and Parks, asphalt paving 12 blocks each, Capitol Hill Paving Dists. No. 3, $37,425, No. 6, $42,951, No. 12, $41,757, No. 13, $56,476, No. 14, $44,075, 12 blocks each South Capitol Hill Paving Dist. No. 3, $43,223, No. 1, $79,652, No. 4, $42,741 and 12 blocks North Paving Dist. No. 6, $49,-555. A. K. Vickery, city engr.

California — June 9, by State Highway Comn., Sacramento, grading and protecting with sea wall 1.2 mi. highway between Sea Cliff and Rancho El Rincon, Ventura Co.; widening, etc., 4 mi. road near Rockville, Solano Co., concrete and crusned gravel or broken stone shoulders. R. M. Morton, state highway engr. Noted May 8.

California—June 16, by State Highway Comn., Sacramento, grading 5.3 mi. road between Boca and Floriston, Nevada Co. R. M. Morton, state highway engr.

Calif., Inglewood—City Trustees taking bids improving portion Nectarine St., 75,376 sq.ft. grading, 46,126 sq.ft. 5 in. asphaltic concrete, 2,474 lin.ft. concrete curb, walks, etc.; portion Olive St., 191,397 sq.ft. grading, 117,426 sq.ft. 5 in. warrenite bitulithic, 6,460 lin.ft. concrete curb, 9,543 sq.ft. concrete gutter, 30,022 sq.ft. cement walks. A. Cory, city engr. Noted May 15.

Calif., Hawthorne — June 9, by S. V. Fraser, city clk., improving Bway., 2,218 lin.ft. grading, 4,240 lin.ft. curb, 18,520 sq. ft. walks, 8,479 sq.ft. 5 in. concrete gutter, 81,305 sq.ft. 1½ in. Willite on 3 in. asphaltic concrete, 26 lighting standards.

Calif., Los Angeles—June 9, by Supervs. Los Angeles Co., improving 9,900 lin.ft. Painter Ave., 10,311 cu.yd. earth excav., removing 3,542 cu.yd. old macadam and disintegrated granite, shaping 26,588 sq. yd. roadbed, 25,003 sq.yd. 4 in. sub-base, shaping 19,800 lin.ft. shoulders, 26,588 sq. yd. concrete, 14,225 lin.ft. curtain walls, rein.-con. culvert and headwalls (county to furnish 6,286 bbl. cement and freight on 9,283 tons sand and gravel).

Calif., Suisun City—Town Trustees, taking bids improving various streets, 150,-000 sq.ft. 3 in. asphaltic concrete on existing base. E. N. Eager, c/o Courthouse, Fairfield, engr.

BIDS RECEIVED

Maine — State Hy. Comn., Augusta, bituminous macadam surfacing 1.77 mi. section of state highway B, in Bridgeton, from Arborio Road Constr. Co., 408 Main St., Hartford, Conn., $40,883; 5.24 mi. section of state highway F, in Turner, from I. J. Murphy, Somerville, Mass., $125,015; 2.03 mi. section of state highway K-Spur, in Houlton, from Boone & Brewer, Presque Isle, $67,270; 4.296 mi. section of state highway S, in Gray, and 3.498 mi. section state highway S, in New Gloucester, from A. D. Bridges Sons, Inc., Hazardville, Conn., $71,917 and $65,479 respectively; 4.05 mi. section of state highway J-K, in Ormeville and La Grange, from Wyman & Simpson, Waterville, $63,988. Noted May 8.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, from Cleveland Trinidad Paving Co., Flushing, repaving with asphalt roadway of East 14th St., $6,817, Kingston Ave. $10,360; from Borough Asphalt Co., 1301 Metropolitan Ave., Lafayette Ave. $48,767; from M. J. O'Hara, 1228 Park Ave., New York, 41st St. $10,192; from H. Johnson, Astoria Ave. and East 46th St., Elmhurst, constructing timber jetty pile, foot of West 10th St., $4,456. Noted May 15.

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., May 19, from Rock Asphalt & Constr. Co., Morgan Bldg., asphalt paving Bills Pl., $10,646, Houston St. $14,227, repaving Lewis St. $16,822, Eagle St. $7,510, Forest Ave. $8,258, South Division St. $7,862, North Division St. $17,455, East Ferry St. $39,635, Jones St. $27,675, also widening East Ferry St. 1 ft., $4,427; from H. P. Burgard Co., 1968 Fillmore Ave., paving Poultney St. $15,714, repaving Walden Ave. $130,889; from Erie Contg. Co., Morgan Bldg., paving with brick Bills Pl. $11,900, Poultney St. $18,316; from B. J. Spire, 24 Colonial Circle, paving with brick Houston St. $15,200. Noted May 22.

New Jersey—State Hy. Dept., Trenton, paving and one small span bridge on Route 7, Sect. 2, Golf Course to Andersons Corner, Monmouth Co., 18,886 cu.yd. excav., 32,184 sq.yd. concrete, 18,121 sq.yd. gravel shoulders, etc., from J. N. Rueter, 221 Catherine St., Elizabeth, $168,954. Noted May 8.

N. J., Audubon—Boro Comrs., concrete paving from Union Paving Co., 30th and Lancaster Sts., Phila., Pa., alleys north of Merchant St., Princeton and Cornell Rds., Pine Oak and Chestnut Sts., Edgewood, Audubon, 4th, Hampshire and West Atlantic Aves., $168,223; East Atlantic Ave., Yale and Lafayette Rds., $21,591. Noted May 15.

N. J., Camden—Regrading and resurfacing 40,000 sq.yd. Line, 4th, Point, Elm, South 6th, Welsh and Liberty Sts., Princeton, Clare, Cedar and Auburn Aves., from Union Paving Co., 30th and Lancaster Sts., Phila., Pa., $123,957; patching and surfacing North 4th, Chestnut, Royden and Cherry Sts., from B. Foster Co., 20th and Venango Sts., Phila., Pa., $26,510.

N. J., Haddenfield—Paving 198,000 sq. yd. all streets in boro. bituminous surface and sheet asphalt, from Union Paving Co., 30th and Lancaster Sts., Phila., Pa., $342,025.

N. J., Orange—G. C. Bergen, purch. agt. Essex Co., Court House, Newark, paving 20,000 sq.yd. 3 in. sheet asphalt on 2 in. concrete, in Scotland St., from Standard Bitulithic Co., 50 Church St., New York City, $72,244. Noted May 15.

N. J., Pitman—Laying 66,400 ft. concrete sidewalks, 20,600 lin.ft. curb and 780 sq. yd. concrete gutter in various streets, from G. Kindle, Pitman, $44,770.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. Application)** R. 258, A. 2908 and 2909, Erie Co., from J. C. Devine Co., Alliance, O., $167,045; R. 212, Bradford Co., from Meredith McVaugh & Webb, 1409 West 10th St., Erie, $257,907; R. 333, York Co., from P. R. Hostetter, Inc., 31 West Phila. St., York, $172,776; R. 258, A. 2883 and 2908, Erie Co., from E. M. Love & Son, Corry, $205,-727; R. 189 and 338, Jefferson Co., from M. Bennett & Sons, Indiana, $550,254; R. 335, A. 2631, 2632, 2633 and 2634, Lackawanna Co., from H. B. Sproul Constr. Co., Inc., 218 Adams Ave., Scranton, $271,774; R. 140, Schuylkill Co., from Warren Bros. Co., 9 Cambridge St., Boston, Mass., $146,-060; R. 231, A. 2708, Adams Co., from Union Constr. Co., 349 Woolworth Bldg., Lancaster, $229,600; R. 59, Jefferson Co., from W. C. Quick & Co., Brookville, $120,-790. Noted May 1.

Maryland—State Rds. Comn., Baltimore, May 20, concrete paving 1 mi. highway in Garrett Co., Contr. G-28, from Kitzmiller Constr. Co., Kitzmiller, $44,544. 1 mi. in Frederick Co., Contr. F-76, from L. R. Warsche, Thurmont, $53,120, 4.43 mi. in Anne Arundel Co., Contr. AA-39, from D. Marine, 2 East Lexington St., Baltimore, $127,201, 2 mi. in Worcester, Contr. WO-32, from Smith & Renshaw, Snow Hill, $60,696; gravel surfacing 3 mi. in St. Marys Co., Contr. SM-27, from St. Marys Constr. Co., Mechanicsville, $21,546; penetration macadam paving 4.6 mi. in Baltimore Co., Contr. B-63, from Development & Constr. Co., Amer. Bldg., Baltimore, $81,119. Noted May 8.

Kentucky—State Hy. Dept., Frankfort, **(S. P. means State Project)**, bituminous surfacing 4.07 mi. Lawrenceburg-Chaplin Rd., S. P. 44-A, 14 ft., Anderson Co., 4.1b mi. Pineville-Magnet Rd., 14 ft., S. P. 5-S, Bell Co., 5.12 mi. Grayson-Ashland Rd., 14 ft., S. P. 47-1, Boyd Co., 7.7 mi. Winchester-Richmond Rd, 14 ft., S. P. 50-B, Clark Co., 6.12 mi. Greenup-Ashland Rd., 14 ft., S. P. 20-B Greenup Co. and 3.85 mi. Paducah-Mayfield Rd., 14 ft., S. P. 9-A, McCracken Co., from Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, $2,842, $3,958, $4,824, $5,277, $4,406 and $6,433 respectively; 3.9 mi. Lawrenceburg-Kentucky River Rd. 14 ft., S. P. 20-C, Anderson Co., and 16.14 mi. Danville-Stanford Rd., 14 ft., S. P. 22-E, Boyle Co., from R. B. Tyler & Co., 114 South 4th St. Louisville, $2,982 and $7,890 respectively, 16.6 mi. Lenoxburg-Germantown Rd., 14 ft., S. P. 57-E and F, Bracken Co., and 16.5 mi. Newport-Falmouth Rd., 14 ft., S. P. 21-A and B, Campbell Co., from Eaton Oil Works, Sterrett St., Cincinnati, O., $13,907 and $11,611 respectively, 10 mi. Hopkinsville-Pembroke Rd. 14 ft., S. P. 2-G, Christian Co. 9.6 mi. Lancaster-Kentucky River Rd., 14 ft., S. P. 25-E-1, Garrard Co., and 17.4 mi. Louisville-Taylorsville Rd., 14 ft., S. P. 18-A, Jefferson Co., from F. G. Breslin, 32nd and Market Sts., Louisville, $8,326, $12,251 and $12,952 respectively; shaping and waterbound macadam surfacing 7.05 mi. Mt. Vernon-Roundstone Rd., 12 ft., S. P. 5-L, Rockcastle Co., from J. B. Betts, Nicholasville, $64,625, 13.2 mi. London-Corbin Rd. 12 ft. S. P. 5 Laurel Co. 15,000 cu.yd. earth and 3,000 cu.yd. rock excav., from E. A. Chilton, London, $143,036. J. S. Boggs, highway engr. Noted May 8.

O., Cleveland—Improving (1) East 100th St. (2) Iroquois Ave. (3) Castalia Ave. (4) Pratt Ave. (5) Hope Court (6) Train Ave. (7) East 123rd St. (8) East 97th St., (1 to 8 inclusive) involves 19,130 sq.yd. vitr. brick, ashalt or concrete, 16,285 lin. ft. stone curbing, 17,952 lin.ft. 4 in. drain tile gutter, 8,725 cu.yd. earth excav., 19,130 sq.yd. concrete base, (9) East 118th St. (10) St. Catherine Ave. (11) East 110th St. (12) East 112th St. (13) East 84th St., (9 to 13 inclusive) involves 14,240 sq.yd. vitr. brick, asphalt or concrete, 6,820 lin. ft. stone curbing, 7,100 lin.ft. 4 in. drain tile gutter, 4,950 cu.yd. earth excav., 9,980 sq.yd. concrete base, (14) Durkee Ave. (15) Lasy Ave. (16) East 139th St., (14 to 16 inclusive) involves 15,200 sq.yd. vitr. brick, asphalt or concrete, 10,500 lin.ft. stone curbing, 11,200 lin.ft. 4 in. drain tile gutter, 7,450 cu.yd. earth excav., 15,-200 sq.yd. concrete base, from Enterprise Paving & Constr. Co., 8444 Bway., (1) $4,998 (4) $4,998 (11) $4,998 (12) $7,738; from Gould & Maybach, 16113 Saranec Rd. (2) $9,765 (3) $4,175 (8) $14,912; from Roehl Bros. Paving & Constr. Co., 7006 East Denison Ave., (5) $8,443 (6) $7,380; from Baldwin Bros., 4500 Euclid Ave., (7) $36,888 (16) $34,266; from Freshwater Constr. Co. Natl. Bldg., (9) $21,739; from Garland Bros., Pavers Exch., (10) $14,-484 (15) $22,236; from Cleveland Trinidad Paving Co., The Arcade, (13) $17,144; from A. M. Pejsa Paving Co., 3161 Derbyshire Rd., Cleveland Heights, (14) $30,563. Noted May 8.

O., Cleveland — Cuyahoga Co., paving Lorain Rd. 2, 24,100 sq.yd. (a) Medina or (b) granite block, 21,600 sq.yd. concrete base, 12,550 ft. 4 in. sewer pipe, etc., from Roehl Bros., 7002 Denison Ave., (a) $206,775 (b) $214,005. Noted May 8.

Michigan—State Highway Dept., at office Bd. Gogebic Co. Rd. Comrs., Bessemer, grading, gravel surfacing, etc., 7.463 mi. State Trunk Line Rd. 12-41, 2 course gravel, 359 cu.yd. concrete, 71,311 sq.yd. gravel, 32,727 cu.yd. earth excav., from J. E. McNicholas, Marenisco, $80,529. Noted Apr. 17.

Michigan—State Highway Dept. at office Bd. Houghton Co. Comrs., Hancock, from Fitzpatrick Bros. & La Mont, Ironwood, improving 6.767 mi. State Trunk Line Rd. 28-8, Sect. C, 14,280 lb. reinforcing, 18,484 sq.yd. stamp sand or 63,516 sq.yd. gravel, 52,079 cu.yd. earth excav., $78,014; 3.63 mi. State Trunk Line Rd. 28-8, Sect. B, 5,220 lb. reinforcing, 9,919 tons stamp sand or 34,083 sq.yd. gravel, 46,542 cu.yd. earth excav., $57,055. Noted May 1.

Michigan—State Highway Dept. at office Bd. Missaukee Co. Rd. Comrs., Lake City, grading and surfacing 3.32 mi. State Trunk Line Rd. 66-16, 16 ft., 31,810 sq. yd. gravel, 21,905 cu.yd. excav., from C. G. Honeywell, Elmira, $25,133. Noted Apr. 24.

Michigan—State Highway Dept. at office Bd. Ontonagon Co. Rd. Comrs., Ontonagon, grading and surfacing 2.057 mi. State Trunk Line Rd. 28-11, 16 ft., 20,456 lb. reinforcing, 250 cu.yd. concrete, 19,307 sq. yd. gravel, 11,514 cu.yd. excav., from W. T. Campbell, Trout Creek, $23,936. Noted Apr. 24.

Streets and Roads (Continued)

Michigan—State Highway Dept. at office Bd. Van Buren Co. Rd. Comrs., Paw Paw, grading and surfacing 3.295 mi. State Trunk Line Rd. 40-1, Sect. A, Van Buren Co., 34,800 sq.yd. concrete, 21,027 cu.yd. earth excav., from Kalamazoo Paving Co., Kalamazoo, $68,071. Noted May 1.

Michigan—State Highway Dept. at office Comrs. Oakland Co., Pontiac, grading and surfacing 2.25 mi. State Trunk Line Rd. 10-39, Sect. D, 40 ft., 23,690 lin.ft. center contraction joint, 53,397 sq.yd. concrete, 22,762 lin.ft. gutter, 44,217 cu.yd. earth excav., etc., from R. D. Baker Co., 1454 Penobscot St., Detroit, $186,956. Noted May 8.

Mich., Springwells — B. P. Esper, city clk., improving Schaefer Rd. south of Michigan Central Ry. from M. R. Hanna Co., 1636 Dime Bank Bldg., Detroit, 42,105 sq.yd. paving $2.50 per sq.yd., 18,045 lin. ft. curb $1, 9,023 ft. grading $0.90, etc., total $227,030. Noted May 8.

Wis., North Milwaukee—W. E. Chase, city clk., May 20, improving 6 streets, from Milwaukee Genl. Constr. Co., 427 Mitchell St., Milwaukee, 15,102 cu.yd. grading at $0.88 per cu.yd., 22,661 sq.yd. pavement concrete $2.92, vibrolithic concrete $2.85. Noted May 15.

Minn., St. Paul — See "Material and Equipment under Reinforcing, Paving Materials, etc."

Neb., Lincoln—City (**P. D. means Paving Dist.**), from Abel Constr. Co., 318 Terminal Bldg., P. D. 567 $4,458, P. D. 583 $13,564, P. D. 585 $2,520, P. D. 581 $6,216, P. D. 402 $19,098; from Cochrane Constr. Co., 822 1st Natl. Bank Bldg., P. D. 195 $41,515.

Tex., Houston — Rock asphalt paving McKinney Ave. from Chenevert St. to Houston Belt & Terminal R.R. tracks, from Uvalde Rock Asphalt Co., West Bldg., $76,-153; Clay Ave. from Louisiana to Austin Sts., from Scott Schambaugh, Lavendon Bldg., $50,572.

Okla., Bartlesville — Improving Kaw, Comanche, Chickasaw and Cherokee Aves., 7th and 13th Sts. and alleys in blocks 6, 29 and 40, from Hamilton Constr. Co., Bartlesville, 5 x 8.5 in. concrete paving at $3.00 per sq.yd., 6 in. concrete paving at $2.70 per sq.yd., curbing at $0.80 per lin.ft., earth excav. at $0.85 per cu.yd. and rock excav. at $1.75 per cu.yd.

Wash., Tacoma — Comrs. Pierce Co., May 9, paving Veterans Dr., from Albertson, Cornell Bros. & Walsh, 1113½ A St., $40,626. Engrs. est. $37,599. Noted May 1.

Calif., Fresno—Improving portion Fresno St., 237,405 sq.ft. grading, 221,142 sq.ft. asphalt, 4,258 ft. concrete, etc., from Federal Paving Co., Standard Oil Bldg., San Francisco, $64,166.

Calif., Fresno — Fresno Co., improving Rd. Dist. 8, 118,400 sq.ft. concrete walks, 25,500 ft. concrete curb, etc., from Thompson Bros., G and Divisadero Sts., $29,302.

Calif., Glendale — Improving Camulos Ave., etc., from C. L. Hill, 320 West Vine St., 155,550 sq.ft. grading $0.08 per sq.ft., 109,020 sq.ft. 3 in. oil macadam, $0.105, 17,090 sq.ft. cement walks $0.165, 4,631 lin. ft. curbs $0.50, total $40,750.

Calif., San Diego—Improving Cleveland Ave. and Vermont St. (1) 116,330 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete (2) 198,441 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, from G. R. Daley, 4430 Boundary St. (1) $0.219 (2) $0.169; from California Constr. Co., Union Bldg., (1) $0.224 (2) $0.168. Noted Mar. 6.

CONTRACTS AWARDED

Vt., Barre—State Hy. Dept., Montpelier, concrete paving 2.12 mi. Montpelier and Barre Sts. 16 ft., to J. E. Flood Constr. Co., Hudson Falls, N. Y. $80,120. Engrs. est. $85,000.

N. Y., Albany—Bd. Contract & Supply, asphalt paving and curbing, etc. Grand St. from Beaver to Morton Sts., to H. Dumary, 119 State St., $86,514. Engrs. est. $90,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, regrading and laying sidewalks in Himrod St., $2,325, laying sidewalks in Hinman St., $3,970, grading, curbing and laying sidewalks in 2nd Ave., $12,749; to H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., curbing and laying sidewalks in 159th St., $4,864, grading and curbing 159th St., $4,260; to Sicilian Asphalt Paving Co., 41 Park Row, New York City, repairing sheet asphalt pavement in 1st and 2nd Wards, $6,733. Noted Apr. 24.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Peace Bros. Inc., 57 North Laurence St., Flushing, grading, curbing and laying sidewalks, etc., on Lewis Ave. $8,940, 55th Ave. $5,770, grading sidewalk space, setting curb, etc., on 58th St. $1,577; to Kennedy & Smith, 93 Amity St., Flushing, grading, curbing and laying sidewalks, etc., on Merritt St. $11,914, 89th Ave. $11,916; to J. J. O'Brien, Jr., William St., Jamaica, grading sidewalk space in 101st St. $1,488; to Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., grading, laying sidewalks and asphalt paving Edgemere Ave. $70,475, Hancock St. $6,875; to J. Condon, 341 Cornelia St., Brooklyn, grading, etc., 4th Ave. from Astoria to Vandeventer Aves. $2,812, grading and curbing 4th Ave. from Vandeventer to Grand Aves. $7,810. Noted May 15.

N. Y., Rome—Bd. Estimate & Contract, Warrenite pavements on McAvoy Ave., Doxtater, North, Louisa and Jasper Sts., to Warren Bros., Parkman Bldg., Boston, Mass., $30,000.

N. Y., St. George—Repaving Richmond Terrace, etc., granite blocks, to J. Johnson Sons, 445 Bway., West New Brighton, S. I., $21,277; Bay St., to Vanderbilt Constr. Co., 24 Elizabeth St., West New Brighton, S. I., $132,978. Noted May 22.

N. Y., Watertown—Concrete curb and gutters in various streets, to P. C. Rock, Antwerp, Grand Ave. $2,648, Hancock St. $3,748; to G. H. Allard, Watertown, Salina St. $3,282, Bway. Ave. W., $1,676; to W. C. Jones, Watertown, Haley St. $3,619, Ward St. $3,669, Myrtle Ave. $1,991, Holcomb St. $3,086, Bishop St. $3,619, and North Orchard Sts., $3,724. Noted Apr. 17.

N. J., Freehold—Monmouth Co., reconstructing 2.153 mi. Sect. 2 Freehold-Smithburg Rd., to Gallena-Poole Co., 146 East Front St., Trenton, $96,860. Noted May 1.

N. J., Magnolia—Camden Co. (Camden), paving ⅔ mi. Warwick Rd. Centre Twp., here, to Union Paving Co., 30th and Locust Sts., Phila. $67,131.

N. J., New Brunswick — City Comn., sheet asphalt paving and curbing 7 streets, to T. H. Riddle, 102 Church St., $3.05 per sq.yd., and 3 streets to Utility Constr. Co., 5 Spring St., $3.02 per sq.yd.

N. J., Trenton—City Comn., City Hall, to Union Paving Co., 30th and Locust Sts., Phila., asphalt paving and repaving Edgemere Ave., $21,907, Hillcrest Ave., $34,809, Ingham Ave. $35,981, Kelsey Ave., $11,-313, Stuyvesant Ave. $43,876, Stockton St. $6,045, Liberty St. $32,903; to Ross & Whalen, 471 Southard St., Bridge St. $15,-852, Calhoun St. $10,933, Chestnut St. $28,628, Cooper St., $12,686, Emory St. $46,297, Lamberton St. $16,130, Lee St. $8,757, Union St. $8,887; to A. DeLucia, 52 Bayard St., part of Bridge St. $17,073, part of Calhoun St. $7,162, Snyder St. $475, Mulberry St. $8,812, Rose St. $14,-208; to R. S. Barrett, 139 Hoffman Ave., Wilson St. $7,203. Noted May 8.

Pennsylvania—State Dept. Hys. Harrisburg, (**R. means Route and A. Application**), rein.-con. paving A. 1430, Chester Co., to Sutton Constr. Co., 1015 Chestnut St., Phila., $107,885; R. 325, Sect. 2, Greene Co., to Froemming Bros., 1326 Humboldt Ave., Milwaukee, Wis., $357,970; R. 98, Forest Co., to Penn Erie Constr. Co., Erie, $227,142; R. 183, Columbia Co., to J. Christiano, Shamokin, $129,996; R. 203, A. 2016, Armstrong Co., to Greunke Bros., New Castle, $214,745; R. 234, A. 2042, Clearfield Co., to Avery & Bailey, Phillipsburg, $111,612; A. 523, York Co., to Comerford Constr. Co. 125 South 5th St., Phila., $108,331; A. 585, Franklin Co., to Bester Long Co., Hagerstown, Md., $118,596. Noted May 15 and 22.

Pa., Martinsburg — Blair Co. rein.-con. paving and curbing 3.219.8 lin.ft. Market and Allegheny Sts., 26 and 36 ft., to David & Young, Hollidaysburg, $34,773; 210 ft. rein.-con. bridge, four 46 ft. spans at 30 degree skew (no approaches included) to A. Fogel, Hollidaysburg, $22,442. Noted May 1.

W. Va., Logan—Logan Co. improving 22 mi. Man-Campus Rd., to F. H. Herring Constr. Co., Greenwood, Va., $29,500; 3.6 mi. Stollings-Ethel Rd., to Coda-Nash Co., Logan, $34,269.

W. Va., Wheeling—Paving Wood St. and side street, to Seabright Co., 70 43rd St., $32,530; building retaining wall on McColloch St., to Kaltenbach Bros., Bd. of Trade Bldg., $28,608.

Fla., Dade City—Pasco Co., to Mickler & McLeod, Dade City, paving with rock and clay and asphalt surfacing, Rd. 8, Hudson to Hernando Co. line, $25,000; Rd. 7, Odessa to Denham, $46,000; Rds. 3, 4, 5 and 6, $26,000; Rd. 2, $40,000; Rd. 1, $99,740. Noted Sept. 13.

Fla., Inverness—Citrus Co. 17.47 mi. State Rd. 5, Projects 625 and 626, paving, clearing, grubbing, bridges, etc., to Barber Foster & Co., Jacksonville, $200,000, county portion, and $800,000 state portion.

Alabama—State Hy. Comn., Montgomery, graveling 5 mi. road between Alexander City and Jacksons Gap, Tallapoosa Co., 10 ft., to Stanley & Singer Constr. Co., La Fayette, $118,604, engrs. est. $120,-000; grading 19.8 mi. Eutaw-Livingston Highway, Greene Co., 60 ft., to Thompson & Co., Fayette, $142,011, surfacing same, to Morgan Hill Paving Co., Birmingham, $201,520. Noted May 15.

Ala., Florence—Paving with rock asphalt 70 blocks various streets 20- to 30-ft., to Uvalde Paving Co., Insurance Bldg., Dallas, Tex., $200,000.

Ala., Opp — Asphalt paving 10 blocks streets 20 ft., to Couch Constr. Co., Opp, $80,000.

Ala., Tuscumbia—Paving with asphalt 36 blocks and laying 2 mi. cement sidewalks on Inter-Southern Highway, to Southern Roads Co., Amer. Trust Bldg., Birmingham, $151,000.

Miss., Greenwood—La Flore Co. grading and gravel surfacing 14.5 mi. Greenwood-Money-Tallahatchie Rd., 18 ft., to S. M. Boyd, Columbus. Noted May 1.

Louisiana — State Hy. Dept. Reymond Bldg., Baton Rouge, 9.4 mi. State Project 346 C, New Orleans-Fort Jackson Highway, Plaquemine Parish, to Highway Constr. Co., c/o State Hy. Dept., $63,475. Noted May 1.

La., Baton Rouge—Comn Council, surfacing streets, 78,166 sq.yd. Warrenite bitulithic on concrete, to Southern Roads Co., Weiss Bldg., New Orleans, $275,000, 12,008 sq.yd. 3 in. brick on 5 in. concrete, to Valient & Toomey, 8th St., Ft. Worth, Tex., $54,128; 9,146 sq.yd. 4 in. brick on 6 in concrete, to Merrill Eng. Co., Vicksburg, Miss., $17,465.

La., Baton Rouge — Paving various streets, 79,000 sq.yd. 2 in. warrenite on 5 in. base, to Southern Roads Co., Baton Rouge, $276,505; 12,000 sq.yd. 3 in. brick on 5 in. concrete base, to Valieant & Toomey, Farmers & Merchants Natl. Bank Bldg., Fort Worth, Tex., $54,128. Noted Apr. 10.

Tenn., Gallatin—Paving with rock asphalt 50,000 sq.yd. various streets, to V. E. Shevenell Constr. Co., Memphis, approximately $50,000. Noted Apr. 10.

Tenn., Ridgley—Paving with 6-in. concrete 13,000 sq.yd. various streets, to W. R. Aldrich Constr. Co., Dyersburg, $30,000. Noted Apr. 1.

O., Akron—Paving 5th Ave., to V. Olson, Akron, $29,401, engrs. est. $30,000; paving West Delton St., grading, paving and installing walks on North Adams St., to Hollinger & Davidson, Akron, $26,158 and $66,148 respectively, engrs. est. $27,-500 and $70,000 respectively.

O., Carrolltown—Asphalt paving 4,491 sq.yd. 5th St. N. W. and 4th St. N. E., also 4,000 sq.yd. 3rd St. S. E. and 2nd St. N. W., to General Asphalt Paving Co., 1268 Dueber Ave. S. W., Canton, $25,486 and $26,239 respectively, engrs. est. $25,-750 and $26,500 respectively.

O., Cleveland—Cuyahoga Co. improving Minor Rd. 2, 13,480 lin.ft. 4 in. sewer pipe gutter, 36,000 cu.yd. earth excav., 13,-480 sq.yd. 8 in. concrete, to C. A. White, Willoughby, $52,753. Engrs. est. $61,992. Noted May 22.

O., Columbus—H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections, and asphalt paving 1,735 ft. Manhattan Ave., 26 ft., to Burns Paving Co., 316 South High St., $27,865; 1,275 ft. Hanford St. 26 ft., to Franklin Asphalt Paving Co., 209 South High St., $17,483; 326 ft. Pomola Ave. 24 ft., to Trinidad Asphalt Paving Co., Grand Theatre Bldg., $4,106. Noted May 15.

O., Garfield Heights (Cleveland P. O.) —For 175,000 lin.ft. concrete sidewalk, on various streets, to F. Stollfus, 4912 Baker Ave., Cleveland, $0.21 per ft. Noted Apr. 24.

O., Wooster—To Genl. Asphalt Co., 1268 Dueber Ave., Canton (**e. e. means engrs. est.**), grading and sheet asphalt paving, 5,875 sq.yd. Spink St. $24,452, e. e. $27,872; 2,838 sq.yd. Spring St. $11,824, e. e. $13,-502, 1,704 sq.yd. University St., $7,701, e. e. $7,997, all foregoing 26 ft.; 4,200 ft. Liberty St., resurfacing old brick on stone base, 40 and 52 ft. wide, 25,666 sq.yd. sheet asphalt, $44,035, e. e. $51,538. Noted May 8.

O., Youngstown—Mahoning Co., improving Lowellville-Hubbard Rd., Route 219, and Taft Rd. 250, waterbound macadam, to Sebring Constr. Co., Sebring, $31,486 and $26,751 respectively, engrs. est. $31,-000 and $28,000 respectively; Fairview

Streets and Roads (Continued)

Ave. Rd., to Welk & McCleery, Youngstown, $26,041, engrs. est $27,000.

Indiana—State Hy. Comn., Indianapolis, **(e.e. means engrs. est.)**, surface treatment State Aid Rds. 12 and 32, to R. H. King, Danville, $30,237, e.e. $31,936; Federal Rd. 79, to Ellis & Scamahorn, Rockport, $36,818, e.e. $34,000; State Aid Rds. 13, 21 and 23, to Burk Constr. Co., Newcastle, $39,412, e.e. $29,000; State Aid Rd. 10, Sect. K, to Bowyer Co., Newcastle, $42,758, e.e. $48,230; State Aid Rd. 10, Sects. O, and R., to C. R. Winks, Williamsport, $29,927, e.e. $36,142. Noted May 22.

Ind., Anderson—Madison Co., concrete paving 29th St., to Daniels & Lyst, Farmers Trust Bldg., $23,478; 14th and Fairview Sts., to J. T. Burke, Anderson, $21,744 and $13,510 respectively.

Ind., Ft. Wayne—Allen Co., bituminous macadam paving 3.99 mi. Marion Twp. Rd. 2, 18 ft., to C. W. Ehline, Monroeville, $28,868. Engrs. est. $35,326. Noted May 22.

Ind., New Albany—Bd. Pub. Wks., surfacing Jay and East 9th Sts. from Spring to Elm Sts., to W. S. Condra, New Albany, engrs. est. $4,770 and $4,522 respectively; Market St. from Vincennes to East Sts. and East to Thomas Sts., to D. C. Collins, New Albany, engrs. est. $18,535. Noted Apr 10.

Ind., Rockville—Parke Co., hard surfacing Florida Twp. Rd., to Norman & DeVoto, Clinton, $39,550. Noted May. 29.

Ind., Rushville—Rush Co., concrete paving 8,676 ft. James Shannahan Rd., 18 ft., to Winslow & Hooten, Greenfield, $25,500. Engrs. est. $27,761. Noted May 22.

Ind., Terre Haute—Vigo Co. **(e. e. means engrs. est.)**, 1 mi. J. E. Bickel Rd., 18 ft., to Pigg & Snyder Constr. Co., Terre Haute, $25,463, e. e. $27,219; 12,320 ft. John White Rd., and 11,220 ft. Fromme Rd., 18 ft., to J. F. Kelley Co., Terre Haute, $53,998 and $51,886 respectively, e. e. $67,364 and $60,483 respectively. Noted May 29.

Michigan — State Hy. Dept. at office Comrs. Cass Co., Cassapolis, grading and surfacing 2.763 mi. State Trunk Line Rd. 40-5, A and B, 9,355 cu.yd. excav., 29,325 sq.yd. asphalt, concrete or bituminous concrete to J. Kauffman, Dowagiac, $53,327. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Iron Co., Crystal Falls, grading and surfacing 1.932 mi. State Trunk Line Rd. 12-41, Iron Co., 32,727 cu.yd. excav., 71,311 sq.yd. gravel, to J. E. McNichplas, Marenisco, $80,529. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Genesee Co., Flint, grading and surfacing 5.97 mi. Federal Aid Project 115, B, 28,896 cu.yd. excav., 66,355 sq.yd. 7 in. concrete pavement, also 6.357 mi. Federal Aid Project 115 A, 53,342 cu.yd. excav., 75,182 sq.yd. 7 in. concrete pavement, to Palma Constr. Co., Detroit, $158,905 and $172,229 respectively.

Michigan—State Hy. Dept. at office Bd. Kent Co. Rd. Comn., Grand Rapids, grading and surfacing 5.71 mi. State Trunk Line Rd. 13-50, A. Kent Co., 39,321 cu.yd. excav., 70,258 sq.yd. concrete, to Vanderveen Constr. Co., Grand Rapids, $131,799. Noted Apr. 24.

Michigan — State Hy. Dept. at office Comrs. Muskegon Co., Muskegon, grading and surfacing 2.35 mi. State Trunk Line Rd. 24-26, 7,980 cu.yd. excav., 24,811 sq.yd. concrete, to Charlevoix Abstract & Eng. Co., Charlevoix, $50,303. Noted May 22.

Michigan — State Hy. Dept., Lansing, grading and gravel surfacing 3.02 mi. Federal Aid Project 109, 18,176 cu.yd. excav., 47,177 sq.yd. one course gravel, to M. J. Bacco, Iron Mountain, $60,508.

Michigan — State Hy. Dept. at office Comrs. Oakland Co., Pontiac, grading and surfacing 4.75 mi. Federal Aid Project 97 A, Oakland Co., 55,567 sq.yd. concrete, 28,559 cu.yd. excav., and 3.25 mi. State Trunk Line Rd. 10-41, 38,134 sq.yd. concrete, 23,400 cu.yd. excav., to Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $79,461 and $75,056 respectively. Noted May 8.

Michigan—State Highway Dept., at office Bd. Presque Isle Co. Rd. Comrs., Rogers, grading and surfacing 1.296 mi. State Trunk Line Rd. 10-37 A, 20 ft., 5,359 cu. yd. excav., 19,400 yd. sta. overhaul, 15,354 sq.yd. 7 in. concrete, to L. W. Edison, Onaway, $29,252. Noted Apr. 24.

Michigan — State Hy. Dept. at office Comrs. Roscommon Co., Roscommon, grading and surfacing 6.474 mi. State Trunk Line Rd. 76-4 C, 23,154 cu.yd. excav., 60,719 sq.yd. gravel, etc., to H. M. Belknap, Tawas City, $50,584. Noted May 22.

Mich., Ann Arbor—Paving South Main St., sheet asphalt, to Ann Arbor Constr. Co., Ann Arbor, $77,958, laying curbs and gutters in Dists. 62 to 70 inclusive, to P. Ryan, Jr., Bay City, $30,114. Noted May 1.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete, to Detroit Asphalt Paving Co., 909 Free Press Bldg., St. Jean Ave., $13,099, Loyo Ave. $76,560, South St. $13,209, Winfield Ave. $33,263, Drexel Ave. $31,331, Longfellow Ave. $15,243; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., Wilson Ave. $17,762, Kendall Ave. $13,409, Idaho Ave. $13,189; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., Charest Ave. $37,699, Colton Ave. $23,528, State Fair Ave. $40,455.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, **(3-59 Jersey Madison means State Route 3, Sect. 59, Jersey and Madison Counties)** paving 3-59 Jersey-Madison, to Nelson Bros., Jerseyville, $146,302; 3-60 Madison, to Edwardsville Constr. Co., Edwardsville, $97,970; 1-7 Edwards to H. A. Carpenter, Terre Haute, Ind., $90,348; 12-24 Clinton, to O. Allenthorp & Co., Casey, $67,939; 36-1 Hancock-Adams, to E. J. Eiff Co., Quincy, $139,699; 9-34 McDonough, to J Kesl & Son, Edwardsville, $42,409; grading 26-8A Lee, to J. B. Drew, Tampico, $17,572; bridges on 2-54 DeWitt, to Acme Engineers, Decatur, $11,698. Noted Feb. 21 and Mar. 27.

Ill., Galesburg—Bd. Local Impvts., grading and paving East 3rd St., 1,500 sq.yd. vitr. brick, 1,160 lin.ft. combined concrete curb and gutter, to H. H. Gunther, 859 East Losey St., $6,204, engrs. est. $6,811; West North St., 6,440 sq.yd. vitr. brick, 220 lin.ft. marginal curb, 4,460 lin.ft. concrete curb and gutter, etc., to Graham-King Constr. Co., 550 South Cedar St., $25,989, engrs. est. $28,053. Noted Apr. 17.

Ill., Galesburg — Grading and paving West North St., 5,034 sq.yd. vitr. brick on concrete, 2,400 cu.yd. earth excav., 3,540 ft. combined curb and gutter, to Graham-King Constr. Co., 550 South Cedar St., $18,599. Engrs. est. $19,985. Noted May 15.

Ill., Highwood—Grading, concrete paving, integral curbing, to J. Cape Sons & Co., 468 Water St., Racine, Wis., $59,000.

Ia., Davenport—Paving various streets, to Central Eng. Co., 809 Putnam Bldg., 9,390 sq.yd. concrete at $2.55 per sq.yd., and 25,926 sq.yd. sheet asphalt at $2.58, total $90,834; to McCarthy Impvt. Co., 802 Kahl Bldg., 21,977 sq.yd. bitulithic concrete at $2.69, total $59,118; to W. D. Phelan, Davenport, 51,132 sq.yd. 6 in. concrete at $1.68 and $1.73, total $87,000; to Iowa Eng. Co., Davenport, 6,178 sq.yd. 6 in. concrete at $1.70 and $1.72, total $10,560. Eng. est. $250,000.

Ia., Iowa City—For 18,500 sq.yd. paving, 13,000 lin.ft. concrete curbing, etc., on various streets, to W. Horrabin Constr. Co., Iowa City, $3.29 per sq.yd. brick, $2.35 for rein.-con.

Kan., Emporia—Grading and surfacing with brick on concrete 10 blocks various streets, to C. J. McCoy Constr. Co., Emporia. Engrs. est. $104,569. Noted Apr. 3.

Kan., Leavenworth — Leavenworth Co. grading and vitr. brick surfacing 3.201 mi. Federal Aid Project 234-A, 24 and 27 ft., to Geiger & Rutherford Constr. Co., Leavenworth, $199,699. Engrs. est. $211,834. Noted Apr. 10.

Kan., Salina—Grading and paving 5.25 mi. Federal Aid Project 44, Sects. A and B, 18 ft., Salina Co., to San Ore Constr. Co., Salina, $43,748. Federal Aid Project 45, Sects. C and D will be readvertised. Noted Mar. 27.

Kan., Ft. Scott—Bourbon Co. grading and vitr. brick surfacing 3.897 mi. Federal Aid Project 208-A, 18 ft., to F. L. Thogmartin & Sons, Ft. Scott, $149,632. Engrs. est. $161,958. Noted Apr. 19.

Kan., Sedan—Chautauqua Co. grading and concrete surfacing 2.495 mi. Federal Aid Project 201, Sect. A, 18 ft., to M. R. Amerman, 248 North Market St., Wichita, $85,358. Noted Mar. 20.

South Dakota — State Highway Dept., Pierre, **(F. A. P. means Federal Aid Project)**, to Dowd Bros. & Schreiber, Watertown, grading 15.6 mi. F. A. P. 95B, $41,257, 152 mi. F. A. P. 173A, $4,951, 8.3 mi. F. A. P. 95C, $18,534, all Faulke Co., to Enke Constr. Co., Lake Benton, Minn., 13.49 mi. F. A. P. 160, $45,192, 19.66 mi. F. A. P. 164, $63,454, both Brookings-Moody Co., to I. C. Cox, 800 North Duluth Ave., Sioux Falls, 11.52 mi. F. A. P. 179, Deuel Co., $44,309, to B. O'Rourke, Aberdeen, 15.05 mi. F. A. P. 172A, Edmunds Co., $46,537, to W. R. Larson, 519 Secy. Natl. Bank Bldg., Sioux Falls, 11.21 mi. F. A. P. 162A, Haakon Co., $42,877, 1.38 mi. F. A. P. 135B, Minnehaha Co., $29,811, 18.56 mi. F. A. P. 183A, Beadle Co., $61,001, to Tobin & Moloney, Madison, 14.03 mi. F. A. P. 170D, Minnehaha Co., $44,733, 9.98 mi. F. A. P. 158A, Clay Co., $27,404, to N. J. Olson, Wall, 4.58 mi. F. A. P. 138B, Law-Meade Co., $34,892, to R. P. England, Murdo, 22.44 mi. F. A. P. 177A, Pennington Co., $104,092, to Pioneer Bridge Co., Mitchell, 12.09 mi. F. A. P. 176, Kingsbury Co., $34,896, to Tobin & Maloney, Madison, gravelling 7,503 yd. F. A. P. 49BC Lyman-Brule Co. $7,295, 8,981 yd. F. A. P. 50C, Sanborn Co. $7,261, 20,019 yd. F. A. P. 61B Aurora and Brule Counties, $21,493, 9,878 yd. F. A. P. 86, Sanborn Co. $12,117, 13,086 yd. F. A. P. 88B, Meade Co., $15,253, 20,115 yd. F. A. P. 90, Hutchinson Co. $20,426, 20,788 yd. F. A. P. 98, Lincoln Co. $23,064, 17,948 yd. F. A. P. 105B, Brown Co. $24,869, 22,736 yd. F. A. P. 116, Hutchinson Co. $14,441, 14,946 yd. F. A. P. 122, Deuel Co. $11,582, 14,645 yd. F. A. P. 129, Turner Co. $13,366, 8,185 yd. F. A. P. 137, Lake Co. $6,313, 14,076 yd. F. A. P. 144, Union Co. $8,065, 3,611 yd. F. A. P. 153, Union Co. $9,291; to H. Pickus, 309 Mass Bldg., Sioux City, Ia., 11,099 yd. F. A. P. 20B, Walworth Co. $11,560, to R. R. Wiley, Summit, 11,207 yd. F. A. P. 140, Law-Meade Co. $11,867. Noted Apr. 17 and May 8.

N. D., Devils Lake — Grading 12 mi. Federal Aid Project 225, to W. Collins, Lacota, $31,529 with metal culverts, $33,637 with concrete culverts; rein.-con. work J. J. Rue & Sons, Bismarck, $6,693; improving 13 mi. Federal Aid Project 153, 18,806 cu.yd. graveling load and unload and spread, 55,728 cu.yd. mile haul, to be done by day labor. Noted May 8.

N. D., Fargo—Cass Co., improving 13.042 mi. Project 213, 78,995 cu.yd. earth and 1,490 cu.yd. rock excav. 4,046 lin.ft. 12- to 30-in. portable culverts, 21,625 cu.yd. load, unload and spread, 110,957 cu.yd. gravel haul, etc., to W. H. Noel, Jamestown, $59,591. Noted May 1.

N. D., Mandan—Morton Co. curbing and paving, etc., 7,260 sq.yd. Project 1000, to Woodrich Constr. Co. 1141 Metropolitan Life Bldg., Minneapolis, Minn. $24,359. Noted May 1.

N. D., Napoleon—Logan Co. improving 21.595 mi. Federal Aid Project 123, 182,709 cu.yd. rock excav., 11,428 cu.yd. overhaul, portable culverts; 54,662 lbs. metal reinforcement; 819 cu.yd. dry and 110 cu. yd. wet structure excav., grading, to North Dakota Constr. Co., Linton, $68,485; concrete work. E. A. Moline, Bottineau, $18,109.

Mo., Richmond—Rein.-con. paving 16,000 sq.yd. various streets, etc., to Cooke-O'Brien Constr. Co., 305 Railway Exch. Bldg., Kansas City, $2.65 per cu.yd., etc., total $50,379.

Ark., Little Rock—Improving streets in Impvt. Dist. 357, 15,087 lin.ft. 24- to 36-in. curb and gutter, 2,700 cu.yd. excav., 4,121 ft. 12- to 18-in. storm sewer and 25 manholes, also rebuilding 1,500 ft. sewers and 7 man holes, to G. Garms, Southern Trust Bldg., $33,294.

Ark., Pine Bluff—Paving about 20 blocks Dist. 77, 5,319 cu.yd. excav., 23,100 cu.yd. rein.-con., 14,000 lin.ft curb and gutter, etc., to H. E. Monk, Pine Bluff, $62,082. Noted Apr. 24.

Tex., Dallas — Will repair 40 mi. 15 bituminous streets, by day labor. $100,000. E. A. Kingsley, city engr.

Oklahoma—State Hy. Dept., Oklahoma City, grading and paving 7.55 mi. Federal Aid Project 119, Pittsburg Co., 79,618 sq.yd. concrete, 28,119 cu.yd. earth and 655 cu.yd. rock excav., and 4.56 mi. Hartshorne Rd., Project 120-A, Pittsburg Co., 50,133 sq.yd. concrete, 23,733 cu.yd. earth and 13,221 cu.yd. rock excav., to Smith Bros., Amer. Exch. Bank Bldg., Dallas, Tex., $211,093 and $140,842 respectively, engrs. est. $225,000 and $150,000 respectively; grading and graveling 10.25 mi. Federal Aid Project 117, Muskogee Co., 21,567 cu.yd. gravel, 35,156 cu.yd. earth and 11,466 cu.yd. rock excav., to Maney Bros., Empire Bldg., Oklahoma City, $110,561, engrs. est. $120,000. Noted Feb. 14.

Wash., Centralia—City Council, paving L. I. D. Nos. 64, 65 and 66, 14,650 sq.yd. 6 in. concrete, 10,000 lin.ft. concrete curbing, 1,600 sq.yd. sidewalk, to Albers Constr. Co., Centralia, $16,188, $19,912 and $20,886 respectively. Engrs. total est. $75,000. Noted May 8.

Wash., Longview—Paving, laying walks, curbs, etc., on Main St., etc., incl. 37,500 sq.yd. 5 in. concrete, to Olympic Constr. Co., 1326 Northlake Ave., Seattle, $100,000.

Wash., Port Angeles—Clallam Co., constructing 4.5 mi. Ozette Highway, to N. Nelson, Clallam Bay, $39,900. Engrs. est. $40,000.

Wash., Seattle—Concrete paving Lurdock and Woodworth Sts., to C. L. Laplant, Sedro Woolley, $25,656.

Wash., Seattle—Bd. Pub. Wks., paving East 40th St. et al., to J. B. Covello, 1510 16th St. S., 3,020 sq.yd. 7 in. concrete, $1.85 per sq.yd., 19,860 sq.yd. 6 in. concrete, $1.65, 760 lin.ft. 5 in. asphaltic concrete $0.65, 2,117 ft. concrete curb $0.40, and 7,400 ft. concrete curb $0.35, etc., total

Streets and Roads (Continued)

$44,758. Engrs. est. $48,830. Noted May 15.

Wash., Tacoma — Pierce Co., concrete paving 1.46 mi. Sumner-Buckley Highway, also Midland Highway, to Albertson, Cornell Bros. & Walsh, 1113½ A St., $35,960 and $25,850 respectively, engrs. ests. $35,961 and $27,342 respectively. Noted May 1.

Wash., Walla Walla—Walla Walla Co., grading and gravel surfacing 8 mi. Highway 29, to Columbia Constr. Co., Walla Walla. $76,156.

Calif., Los Angeles—Improving Dunleer Ave., to Hall-Johnson Co., Box 51, Lynwood, grading $85,000, 170,079 sq.ft. concrete, $0.26 863,230 sq.ft. oil and roll $0.08, 245,325 sq.ft. walks $0.22, 54,248 ft. curb $0.65, 99,397 sq.ft. gutter $0.28, total approximately $316,950.

Calif., Orange—Improving various streets, 640,000 ft. 6 in. and 41,010 ft. 5 in. concrete paving, curbs, walks, etc., to G. A. Simpson, San Fernando Bldg., Los Angeles, approximately $138,600. Noted May 22.

Calif., San Francisco—Improving Palou Ave. between Phelps and Rankin Sts., 5,300 cu.yd. cut, 1,350 cu.yd. fill, 2,700 lin.ft. concrete curb, 2,375 sq.ft. artificial stone walks 72,900 sq.ft. concrete, to Raisch Impvt. Co., 46 Kearny St., $30,972. Noted May 15.

Ont., Ottawa — Ottawa Suburban Rd. Comn., 279 Carling Ave., 3 mi. Richmond Rd., bituminous macadam, to McDonnell & Dibblee, 16 St. James St., Montreal, $48,000. Noted Apr. 10.

Ont., Stratford—Asphalt pavements, to Godson Contg. Co., Manning Chambers, Toronto, $82,000.

Industrial Works

PROPOSED WORK

Me., Rockland—Plants—New England Portland Cement & Lime Co., 31 Milk St., Boston, Mass., plans lime plant, annual capacity 500,000 bbls., and cement plant daily capacity 2,000 bbls., here. $400,000.

Me., South Berwick — Power Plant — Newickawnick Co. plans power plant. C. T. Main, 200 Devonshire St., Boston, Mass., engr.

Vt., Bennington—Plant—Vermont Kaolin Co., Inc., having plans prepared classifying, settling and drying plants. $85,000. F. Lafayette, mgr. Private plans.

Mass., Boston—Machine Shop—Union Realty Co., c/o H. F. Livermore, 100 Cummington St., had plans prepared 2 story and basement, 75 x 240 ft., rein.-con. and brick, Linden St., Ward 25, Allston Dist. $110,000. Private plans.

Mass., Everett — Plant — New England Fuel & Transportation Co., 111 Devonshire St., Boston, having plans prepared, iron work plant in connection with present coal handling plant, here. $5,000,000. Private plans.

Mass., Tewksbury — Factory — Wamesit Chemical Co., plans rebuilding brick and timber factory. $100,000. S. Stevens, pres. Private plans.

Conn., Hartford—Shop—Colling Tool & Machine Co., Asylum St., having plans prepared by Greenwood & Noerr, 847 Main St., 1 story, 50 x 100 ft., brick.

N. Y., Watervliet—Factory—Foreman & Clark Mfg. Co., 2409 2nd Ave., plans 6 story, 95 x 210 ft., rein.-con., brick and steel, plain foundation, 24th St. $200,000. Engineer and architect not selected.

S. C., Goldville—Mill, etc.—Joanna Cotton Mills having plans prepared by Lockwood, Greene & Co., engrs., Healy Bldg., Atlanta, Ga., weave building, new picker room addition, moving present office building and warehouse addition, constructing cottages, community house, incl. sewerage water, lights, etc.

Wis., Milwaukee—Warehouse and Cold Storage—Fleischmann Co., 701 Washington St., New York City, N. Y., having plans prepared by L. I. Tieman, archt. and engr., 693 Washington St., New York City, N. Y., 1 story, 50 x 150 ft., brick and timber, plain foundation, 12th St., here. $40,000.

Wis., West Allis—Storage—Allis-Chalmers Mfg. Co. having plans prepared by Klug & Smith, 69 Wisconsin St., Milwaukee, 7 story, concrete and brick, plain foundation. $150,000.

Tex., El Paso—Cotton Compress—Newburger Cotton Co. plans 2 story cotton compress, 75,000 bale capacity. $250,000. Engineer and architect not selected.

Tex., El Paso — Mill — A. Y. Smith, Pearce, Ariz., making plans beet sugar mill, brick and concrete, here. $200,000. Private plans.

Tex., Houston — Mill — Houston Cotton Mills Co., 6th and Rutland Sts., soon lets contract 1 story, 139 x 388 ft., concrete, brick and steel mill, 1 story, 100 x 125 ft. corrugated iron warehouse, and 1 story, 38 x 42 ft. brick boiler room, East Montgomery Rd. $500,000. J. E. Sirrine & Co., South Main St., Greenville, S. C., archts. R. J. Cummins, 727 Bankers Mortgage Bldg., engrs.

Okla., Tulsa — Plant — Slater Bros., 60 North Gilette St. plans plant for manufacturing derricks, rigs and oil well supplies. $125,000.

Calif., Oakland — Substations — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, had plans prepared, 2 story, rein.-con., 51st St. and Shattuck Ave., $85,000, also 2 story, rein.-con. and steel, Grove St. and Telegraph Ave., here. $60,000. Private plans. Steel for both substations, to Moore Drydock Co., foot Adeline St. Other contracts to be awarded later.

Que., Hull—Power Plant—Hull Electric Co., 117 Main St., having plans prepared by W. J. Francis & Co., 260 St. James St., Montreal, 100,000 hp. power development plant, Parryau Falls.

Ont., Brantford—Plant—Brantford Cordage Co., plans addition. $250,000. A. Messecar, mgr.

Ont., Lynedoch — Plant — Jeffrey Milling Co. plans plant.

BIDS DESIRED

Mass., Woburn—Repair Shop—C. De Rosa, Salem St., taking bids 2 story, 40 x 100 ft., rein.-con. and steel, show rooms and machine repair shop, Salem St. About $40,000. E. R. B. and A. C. Chapman, 101 Tremont St., Boston, archts. and engrs.

Pa., Bloomsburg—Mill—June 3, by Ritter & Shay, archts., North Amer. Bldg., Phila., 1 story, brick and stone addition, plain foundation, for Bloomsburg Silk Mill. $125,000.

Pa., Phila.—Factory—June 2, by C. E. Wunder, archt., 1520 Locust St., 1 story, 70 x 200 ft., brick, plain foundation, Westmoreland St., East of 25th St., for Roseman Bros., Inc., 904 Walnut St. $40,000.

Ill., Kewanee—Light Plant, etc.—June 2, by R. R. Haley, city clk., electric light and distribution system. $107,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs.

Wis. Neillsville—Machine Shop—June 3, by O. J. Weyhmiller, comr. Clark Co., 1 story, 50 x 150 ft., hollow tile and concrete, plain foundation. $40,000. Private plans.

CONTRACTS AWARDED

Mass., Cambridge—Factory—Irving & Casson, 573 Boylston St., Boston, 1 and 2 story, 65 x 100 ft., with 20 x 50 ft. wing, brick and timber addition, to S. C. Sperry, 299 Main St., Cambridge. Archts. est. $100,000.

N. Y., Buffalo—Factory—H. Wile & Co., 39 Carroll St., rein.-con. factory, Oak St., to J. W. Cowper Co., Fidelity Bldg., to exceed $100,000.

N. Y., New York—Housing Station—Dept. Plant & Structures, Municipal Bldg., rein.-con., brick nad steel, plain foundation, 139th St. and Harlem River, to W. W. Constr. Co., Inc., 15 East 40th St., $648,800. Noted May 22.

N. Y., Watertown — Factory — Shaughnessy Knit Co., 208 East Milton St., 2 story and basement, 40 x 100 ft., concrete, brick and steel, to Charlebois Contg. Co., 841 Mill St., $45,000.

N. J., Ridgefield—Mill—Lowe Paper Co., River St., 1 story, 40 x 250 ft., rein.-con., brick and steel, plain foundation, to H. Wales Lines Co., 134 State St., Meriden, Conn. Noted May 1.

Pa., Phila.—Plant—Hulton Dyeing Co. Inc., 3819 Frankfort Ave., 1 story, 112 x 301 ft., brick and stone, plain foundation, East of Coral St., to F. Crompton & Bros., 4614 Oakland St. $45,000.

Pa., Phila.—District Station—Supplee-Wills-Jones Co., 1523 North 26th St., 1 story, 145 x 160 ft., brick and stone, plain foundation, to G. Kessler Constr. Co., 1733 Marvine St.

Tenn., Milan—Factory—Milan Development Co., 2 story, cigar factory, brick, to Z. O. Long, Trenton, plumbing and heating, to H. E. Jenkins Co., Milan, wiring and electric fixtures, to Carter Electric Co., Martin. Total $40,000. Amer. Cigar Co., lessee.

Ky., Louisville — Warehouse — Reynolds Tobacco Co., Swan and Kentucky Sts., 3 story, East Kentucky St., to Natl. Concrete Constr. Co., Bd. Trade Bldg., $88,000. Noted May 1.

O., Cleveland — Boiler House — Richman Bros., 1600 East 55th St., 1 story, 43 x 44 ft., brick and steel, to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $40,000.

O., Cleveland — Factory — White Sewing Machine Co., 7821 St. Clair Ave., 4 story and basement, 100 x 100 ft., brick and steel, Winslow St., to Reaugh Constr. Co., 2835 East 51st St. Archts. est. $200,000.

O., Columbus—Power House—Columbus Railway, Light & Power Co., 104 North Ohio St., 1 and 2 story, 52 x 125 ft., rein.-con. addition, 112 East Gay St., to E. Spencer, 910 Huntington Bank Bldg., $125,000.

Ill., Galesburg — Car Plant — Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, 80 x 216 ft., steel, plain foundation, here, to Kenwood Bridge Co., 1416 1st Natl. Bank Bldg., Chicago. Engrs. est. $200,000. Noted Feb. 28.

Wis., Madison—Laundry—Bd. Health, 2 story and basement, 36 x 70 ft., rein.-con., brick and steel laundry and boiler-house, plain foundation, for isolation hospital, to J. H. Findorff, 601 West Wilson St. Archts. est. $40,000. Noted May 1.

Wis., Oostburg—Factory—Oostburg Canning Co., 2 story, 40 x 44 ft., rein.-con., brick and steel, plain foundation, to F. Radloff Co., Plymouth. Noted Mar. 20.

Kan., Salina—Plant—Standard Oil Co., 1 story and basement, 40 x 170 ft., concrete, brick and steel, to Eberhardt Constr. Co., Salina. Archts. est. $40,000.

Mo., St. Louis — Factory — Vivinano Grocer Co., 916 North 7th St., general contract 2 story and basement, 43 x 109 ft., Washington and 9th Sts., to T. H. Ratz, 917A Pine St. Archts. est. $45,000.

Okla., Oklahoma City — Factory — Ford Motor Co., Highland Park, Detroit, Mich., 3 story and basement, 125 x 140 ft., rein.-con. and brick addition, plain foundation, 900 West Main St., here, to C. M. Dunning, 420 Hudson St., Oklahoma City, $150,000. Noted Apr. 17.

Okla., Stroud—Plant—Roxanna Petroleum Co., 927 Mayo Bldg., Tulsa, will construct new casinghead natural gas plant with 3 compressors and storage tanks, by company forces by day labor. $70,000.

Okla., Tulsa—Laundry—T. Miller Laundry Co. will build 1 story, 100 x 140 ft., brick, marble and stone, by day labor. $40,000. C. McDonald, 540 Robinson Bldg., archt.

Calif., Oakland — Power Plant — Great Western Power Co., 530 Bush St., San Francisco, will build 2 story, 66 x 135 ft., rein.-con., sub station and steam heat plant, 20th St. near Telegraph Ave., here, by day labor. $435,000.

Calif., Oakland—Substations—See "Proposed Work."

Calif., San Francisco—Machine Shop—Amer. Can Co., 120 Bway., New York City, 3 story, rein.-con. and brick, 17th and Florida Sts., to Lindgren-Swinerton, Inc., Standard Oil Bldg., $400,000.

Buildings

PROPOSED WORK

Mass., Arlington (branch of Boston)—Fire Station—Town having preliminary plans prepared by McNaughton & Robinson, 46 Cornhill St., Boston, 2 story and tower, brick, Massachusetts Ave. and Bway. $150,000. Noted May 22.

Mass., Boston — Apartment — Goggin & Ripley Inc., 350 Madison Ave., New York City, is interested in syndicate which plans 8 story, brick and limestone, Commonwealth Ave. and Clarendon St., here. $1,000,000. Parker, Thomas & Rice, 110 State St., Boston, archts.

Mass., Boston — Hospital — Beth Israel Hospital, Townsend St., Roxbury, having preliminary plans and sketches made by Densmore, Le Clair & Robbins, Park Sq. Bldg., group brick and stone buildings, Brookline near Longwood Ave. $1,000,000.

Mass., Boston — Schools — School Bd. plans alterations, repairs, etc., in several school buildings this summer. $647,592.

Mass., Bridgewater—Prison—Commonwealth of Massachusetts, Boston, plans state prison on land adjoining state farm, here.

Mass., Concord — Chapel — Middlesex School, plans brick and marble, memorial chapel on grounds opposite Eliot Hall. $150,000. W. C. Appleton, archt., 53 State St., Boston.

Mass., Fall River—Church, etc.—Union Methodist Episcopal Church, R. A. Colpitts, pastor, Prospect St., having preliminary plans prepared by Woodbury & Stewart, 581 Boylston St., Boston, church and parish house, brick and stone, Howland Ave. and Pearce St. $350,000.

Mass., Hyde Park (Ind. Sta. Boston)—High School—School House Dept. City Hall, Boston, having plans prepared by Newhall & Blevins, 9 Park St., Boston, 2 story and basement, 40 x 162 ft., brick and stone addition, Everett and Harvard Aves. $240,000.

Mass., Jamaica Plain (Branch of Boston)—School—City School House Dept., 103 City Hall Annex, Boston, plans 2 story, 80 x 110 ft., and 3 story and basement, 40 x 168 ft. addition, here. $400,000.

Mass., Lexington—High School—W. Rolland, chn. School Comn., having plans prepared by Ritchie, Parsons & Taylor, 15 Ashburton Pl., Boston, constructing Senior

Buildings (Continued)

high school brick and stone, combined with and alterations to present Junior high school. To exceed $150,000.

Mass., Newtonville—High School—Comn. Pub. Buildings, City Hall, Newton, having preliminary plans prepared by Haven & Hoyt, 220 Devonshire St., Boston, brick and stone addition, Walnut St. To exceed $150,000.

Mass., Plymouth—Hall and Auditorium—H. Walton, chn. Town Comn., having preliminary plans prepared by J. D. Leland & Co., 41 Mt. Vernon St., Boston, brick and stone. $300,000.

Mass., Somerville—School, etc.—Church of St. Catherine of Genoa, plans school and convent, Summer and Belmont Sts., Spring Hill Dist. $150,000. C. E. Mongan, chn.

Mass., Wakefield — Apartment — Crystal Apartments, c/o Hutchins & French, archts., 11 Beacon St., Boston, had plans prepared, 6 story, 80 x 120 ft., rein.-con., brick and stone, here. About $150,000.

Mass., West Roxbury (Boston, P. O.)—School—School House Dept., Boston, plans 3 story and basement, 40 x 168 ft., and 2 story, 80 x 110 ft. additions to Jamaica Plain School, here. $400,000.

R. I., Providence—Dormitory—Brown University, having sketches made for dormitory, college grounds. $250,000. C. R. Adams, 150 Congress St., Boston, member com. Architect's name withheld.

Conn., Norwich — Schools — School Bd. plans 2 schools. $300,000. J. C. McPherson, chn. Engineer and architect not selected.

Conn., West Haven (New Haven, P. O.)—Town, E. G. Grimes, chn. school comn., 185 Church St., New Haven, having plans prepared by R. W. Foote, 185 Church St., New Haven, 2 story, 70 x 150 ft., with 54 x 68 ft. wing, rein.-con. and brick, Richard St. $160,000.

Md., Baltimore — Theatre — N. J. Myerberg, 210 North Calvert St., and E. Hanzsche, having plans prepared by L. R. White, Jr., 300 Hearst Tower Bldg., 3 story, 97 x 185 ft., stone front, 2418 St. Paul St. $350,000.

N. Y., Binghamton — School — Common Council having plans prepared by Tiffany & Kaley, Bighamton, new 7th Ward school. To exceed $250,000. E. F. Prentice, city engr. Noted Apr. 24.

N. Y., New York—Academy—Academy of Medicine, c/o York & Sawyer, archts., 50 East 41st St., having plans prepared, 14 story, brick and stone, plain foundation, 5th Ave. and 103d St. $750,000.

N. Y., New York—Hospital—Natl. Hospital Assn., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., having plans prepared 4 story, 50 x 100 ft., brick, steel and stone, plain foundation, Bronx Blvd. and East 236th St. $1,000,000.

N. Y., New York—Hotel—J. Alexrod & Son, 234 West 74th St., having sketches made by G. F. Pelham, 200 West 72nd St., 15 story, 41 x 100 ft., 26-28 West 69th St. $800,000.

N. Y., New York—Office—Co-operative Building Loan Assn., c/o Ludlow & Peabody, archts. and engrs., 101 Park Ave., soon takes bids 16 story, 75 x 80 ft., brick, steel and stone, plain foundation, 437 Lexington Ave. $700,000.

N. Y., New York—Offices—Nola Realty Corp., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., having plans prepared 14 story, 100 x 163 ft., brick, steel and stone, plain foundation, 42 West 48th St. $1,000,000.

N. Y., New York — Y. W. C. A., 610 Lexington Ave., plans 80 x 92 ft. brick, steel and stone, plain foundation, 335-341 East 17th St. $500,000. Architect and engineer not selected.

N. Y., Woodhaven—School—Bd. Educ., 500 Park Ave., New York, had plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, 5 story, brick, steel and stone addition to P. S. 113, plain foundation, 88-89th Aves., here. $600,000.

N. J., Camden—Lodge—Camden Lodge Elks 293, Bway. and Federal Sts., having plans prepared by J. C. Jefferies, 312 Market St., 4 story and basement, 70 x 150 ft., brick and steel, plain foundation, 7th and Cooper Sts. $400,000.

Pa., Phila.—Administration—Bd. Educ. had preliminary sketches made, 5 story and basement, 22nd and Parkway Sts. $2,500,000. Private plans.

Pa., York—Hotel—York Chamber Commerce, c/o C. R. Rice, York, having preliminary plans prepared by W. L. Stoddart, 50 East 41st St., New York City, hotel.

D. C., Wash.—Church—Church of Jesus Christ of Latter Day Saints, 16th St. and Columbia Rd., plans church here. Private plans. $400,000.

Va., Richmond—Hotel—Schmidt & Wilson, Inc., and Thomas Realty Co., having preliminary plans prepared by W. L. Stoddart, 40 East 41st St., New York City, 12 story, Broad and 9th Sts. $1,000,000.

S. C., Goldville—Office, etc.—See "Industrial Works."

Fla., Tampa — Hotel — Wynn-Claughton Realty Sales Corp., E. M. Claughton, secy., Atlanta, Ga., having plans prepared by G. L. Preacher Co., Healey Bldg., Atlanta, Ga., 10 story, Howard Ave. and Bay Shore Blvd., here. $700,000.

Ala., Auburn — Engineering — S. Dowell, pres. Auburn College, takes bids about July 1, 3 story, 75 x 150 ft., brick, college site. $250,000. Warren, Knight & Davis, Empire Bldg., Birmingham, archts.

Ala., Birmingham—Office—Lincoln Reserve Life Insurance Co., having plans prepared by Miller & Martin, Title Bldg., and takes bids about July 15, 4 story addition, 1st Ave. and 19th St. $200,000.

La., New Orleans—Hotel—Guarantee Development Co., Roosevelt Hotel, rejected bids May 15, 18 story addition. $2,000,000. Favrot & Livaudais, Hibernia Bank Bldg., archts.

O., Cleveland—Apartment—Ideal Impvt. Co., c/o S. Spira, 2207 Ontario St., had plans prepared by S. H. White, 1032 Schofield Bldg., 3 story and basement, 80 x 110 ft., brick and timber, 13206 Superior Ave. $200,000.

O., Cleveland — Apartment — M. Teplitz, vice pres., Co-Operative Furniture Co., 4901 Woodland Ave., had plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 52 x 168 ft., brick and timber, 1886 East 82nd St. $175,000.

O., Cleveland — Convent and Chapel — Sisters of St. Joseph, c/o Sister Klatilda, 6700 Lansing Ave., having plans prepared by F. C. Warner, Hippodrome Annex Bldg., 3 story and basement, 80 x 300 ft., concrete, brick and steel, Granger Rd. and Andover Boulevard. $350,000.

Mich., East Lansing—Laboratories, etc.—Michigan Agricultural College, c/o V. R. Gardner, prof., plans 3 story, 124 x 128 ft., laboratories, class rooms, cold storage, etc., rein.-con., brick and steel, plain foundation. $360,000. Archts. name withheld.

Ill., Galesburg—Library—Knox College plans 2 and 3 story and basement, 50 x 140 ft., rein.-con. and stone, plain foundation, on Campus. $200,000. Engineer and architect not selected.

Ill., Cairo—High Schools—Voted $300,000 bonds 2 high schools.

Wis., Lake Beulah—Novitiate—Fathers of Devine Word, Techny, Ill., had plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, and soon takes bids 3 story, 52 x 120 ft., concrete and brick, plain foundation, here. $150,000.

Wis., Madison—Laboratory—Natl. Institute of Colloid Chemistry, c/o J. H. Mathews, Chemistry Bldg., having sketches made by A. Peabody, State Capitol, 4 story, 100 x 125 ft., rein.-con., brick and steel, plain foundation. $750,000. Noted May 1.

Wis., Milwaukee — Apartment — Deuster, Schwartz & Keuper, 530 Grand Ave., plans 3 story and basement, brick and tile, plain foundation, Prospect Ave. $150,000. Engineer and architect not selected.

Wis., Milwaukee—Store—I. H. Benesch Co., 513 Van Buren St., plans 4 story and basement, 100 x 100 ft., brick and concrete, plain foundation, Teutonia Ave. $150,000. Engineer and architect not selected.

Ia., Mount Ayr—Court House—Ringgold Co. election June 2, $150,000 bonds new court house. Keffer & Jones, 202 Masonic Temple, Des Moines, archts.

Neb., Lincoln—Depot—Chicago, Burlington & Quincy R.R., 547 West Jackson Boulevard, Chicago, Ill., plans depot, 7th and P Sts., here. To exceed $150,000. A. W. Newton, ch. engr.

Neb., Omaha — Hospital — Swedish Emanuel Deaconess Hospital, having preliminary plans prepared by H. C. Peterson, 406 Finance Bldg., rein.-con., brick and stone, 34th St. $150,000 or more.

Neb., Omaha—Office—World Herald, c/o H. Doorly, World Herald Bldg., takes bids about June 2, 4 or 8 story and basement, 60 x 150 ft., brick and steel addition, 15 and Farnam Sts. $250,000. T. R. Kimball, 836 World Herald Bldg., archt. Noted May 22.

Mo., Kansas City—Store—Western Electric Co., 608 Wyandotte St., having plans prepared by Shepard and Wiser, Reliance Bldg., 3 story, 111 x 132 ft., rein.-con., and brick. $150,000.

Mo., Webster Groves—High School—Bd. Educ. voted $150,000 bonds, 2 story and basement, also $10,000 bonds repairs and improvements to Douglas Grade School.

Tex., Breckenridge—Courthouse, etc.—Stephens Co., election June 14, $400,000 bonds, courthouse and jail building. E. F. Ritchey, co. judge. Noted May 1.

Tex., Houston—Schools—Election June 10, $3,000,000 bonds school buildings. Address O. F. Holcombe, mayor.

Tex., Houston—Warehouses—J. A. Baker and associates, Chamber of Commerce, having plans prepared by J. E. Sirrine & Co., South Main St., Greenville, S. C., 3 concrete and steel warehouses, East Montgomery Rd. $150,000 each.

Tex., Marfa — High School — Bd. Educ. plans brick and concrete high school. $150,000. Engineer and architect not announced.

Tex., San Antonio—Hospital—Crippled Childrens Assn., c/o Santa Rosa Hospital, plans to raise $150,000 for 4 story and basement, rein.-con., brick and stone, plain foundation, Houston and Santa Rosa Sts. $50,000 already subscribed. Engineer and architect to be selected soon.

Wash., Burlington—School—School Bd. takes bids about June 12, 2 story, 108 x 200 ft., brick, incl. gymnasium and auditorium. $150,000. Morrison & Stimson, Lumber Exch. Bldg., Seattle, Archts.

Wash., Everett—High School—Morrison & Stimson, archts., Lumber Exch. Bldg., Seattle, takes bids about June 12, fireproof, incl. auditorium and gymnasium, for School Bd., here. $300,000. Noted Apr. 17.

Calif., San Francisco—Schools—City and San Francisco Co. plans election to vote on from $15,000,000 to $20,000,000 bonds for schools.

BIDS DESIRED

N. Y., Gloversville—Hospital—June 4, by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., New York City, brick, steel and stone, plain foundation, here, for Nathan Littauer Hospital.

N. Y., New York—Training School—June 24, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, New York Training School for Teachers, West 135th St., here, for Bd. Educ., 500 Park Ave.

N. J., Atlantic City—Bank—June 3, by Simons, Brittain & English, Inc., archts., 929 Chestnut St., Phila., Pa., 3 story and basement, 90 x 694 ft., brick and steel, for Union Natl. Bank, Kentucky and Atlantic Aves., here.

N. J., Elizabeth—Administration—June 9, by Union Co. Park Comn., 286 North Broad St., administration building No. 6, Warinanco Park. C. G. Poggi, 275 Morris Ave., archt.; adv. E. N.-R. May 29.

N. J., Woodbury—County—June 12, by Bd. Freeholders Gloucester Co., Court House, 3 story and basement, 97 x 117 ft., rein.-con., brick and limestone, plain foundation, Delaware Ave. $300,000. C. R. Peddier, 136 South 4th St., Phila., Pa., arch. Noted Mar. 27.

O., Cleveland—Apartment and Garage—S. Newman, 10710 Drexel Ave., taking bids 3 story, 80 x 100 ft. apartment, and 2 story, 50 x 100 ft. garage, brick, Overlook Rd. $200,000. A. F. Janowitz, 811 Prospect Ave., engr.

Mich., Flint — Armory — June 4, by L. Pearson, Lt. Col. Q. M. C., Michigan Natl. Guard, State Military Bd., Lansing, 1 story, rein.-con., brick, concrete and steel, plain foundation, here. $150,000. L. W. Fry, Ann Arbor, archt.

Wis., Burlington—School—June 16 (extended date), by School Bd., 2 story and basement, brick, tile and concrete, plain foundation. $200,000. Oppenhamer & Obel, Bellin Bldg., Green Bay, archts. Noted May 22.

Wis., Kenosha—High School—June 12, by Bd. Educ., Senior High School, 3 story and basement, 250 x 250 ft., brick, concrete and tile, plain foundation, $1,000,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt. Noted May 1.

Wis., Milwaukee—Apartment—June 1, by Irving Realty Co., c/o W. Lillydahl, 579 Frederick Ave., 3 story, 60 x 60 ft., brick, concrete and tile, plain foundation, Ogden Ave. $150,000. Private plans.

Wis., Milwaukee—Store and Office—June 1, by Ielz & Siebert, archts., 373 Broadway, 2 story and basement, 117 x 120 ft., brick and tile, plain foundation, for F. L. Barczak, 738 Forest Home Ave. $150,000. Noted Feb. 26.

Buildings (Continued)

Mo., Kirksville—Library—June 7, by Bd. Regents Northeast Missouri State Teachers College, J. A. Cooley, secy., 3 story and basement, rein.-con., brick and stone. R. H. Sanneman, Lee Bldg., Kansas City, archt.

Ark., North Little Rock—Schools—June 6, by Bd. Dirs. North Little Rock School Dist., 8 room addition to High School, 8 room addition to Riverside School, 4 room buildings at Rose City and Park Hill, all brick or brick and tile. $200,000. R. Burks, 307 Southern Trust Bldg., Little Rock, archt. Noted Mar. 27.

Tex., Abilene—Bank and Office—May 26, by J. M. Alexander (owner), and D. S. Castle Co., archts., 26-31 Radford Bldg., 7 story and part basement, 75 x 100 ft., rein.-con., brick and terra cotta, 1st and Pine Sts. $225,000.

Tex., Dallas—Hotel—June 15, by Lang & Witchell, archts., Amer. Exch. Natl. Bank Bldg., 14 story and basement, 84 x 94 ft., concrete and brick, Main and Harwood Sts., for Hilton Hotel Co., c/o Waldorf Hotel. $1,000,000. Noted May 8.

Tex., Lubbock — College — June 27, by Sanguinette, Staats & Hedrick, archts., 1st Natl. Bank Bldg., administration building and presidents home, brick and concrete, here, for Texas Technological College, Ft. Worth. $325,000. Noted Apr. 24.

Calif., Huntington Park (branch of Los Angeles)—Bank and Office—A. S. Heineman, archt., San Fernando Bldg., Los Angeles, taking bids, 3 story and basement, 40 x 150 ft., brick, Pacific Blvd., here, for Hellman Commercial Trust & Savings Bank, 601 South Main St., Los Angeles. Noted May 15.

Calif., Long Beach—School—June 9, by Bd. Educ., 2 story, 18 room, brick, Edison Elementary School. $150,000 or more. H. L. Gogerty, Marine Bank Bldg., Long Beach, archt., and Noerenberg & Johnson, Railway Bldg., Los Angeles, associated archts. Noted Mar. 20.

Calif., Los Angeles—Exchange—Bliss & Faville, archts., Balboa Bldg., San Francisco, taking bids 9 story, 120 x 170 ft., brick and steel, Olive St., here, for Southern California Telephone Co., 740 South Olive St. Noted May 8.

Calif., Los Angeles—Store, Garage and School—F. Dorn, archt., Marsh-Strong Bldg., taking bids 2 story, 145 x 207 ft., brick, 6th St., for Rampart Blvd. Co., c/o architect. Noted May 1.

Calif., Los Angeles—Store and Loft—Walker & Eisen, archts., Great Republic Bldg., taking bids 13 story and basement, 50 x 90 ft., rein.-con., 7th and Los Angeles Sts., for S. Goodman, c/o architects. Noted Mar. 20.

Calif., San Francisco—Club—Bakewell & Brown, archts., 251 Kearney St., taking bids 2 story, rein.-con. and stucco, Lakeside Dist., for Olympic Club, Olympic Club Bldg. $175,000.

BIDS RECEIVED

N. Y., New York—Nurses School—Medical Superintendent, Bellevue Hospital, 415 East 26th St., additional wings to Bellevue training school for nurses, general contract from P. J. Carlin, Grand Central Terminal, $423,400; heating, from T. F. Hall, Inc., 405 Lexington Ave., $31,100 plus $2,015; plumbing, from P. F. Kenny Sons, 33 Old Bway., $89,000. Noted May 15.

Tex., San Antonio — Office — San Antonio Builders Exch. Co., 206 Bedell Bldg., general contract, 9 story, basement and roof garden, brick, plain foundation, Pecan and North St. Marys Sts., from J. Aiken, 802 Delmar St., $179,815.

Wash., Tacoma—School—School Bd., J. T. Stewart School, 2 story, 140 x 290 ft., concrete and steel, from J. Blehn, 202 Bway., $299,885. Engrs. est. $250,000.

CONTRACTS AWARDED

N. H., Nashua—School—T. M. James Co., archts., 3 Park St., Boston, 2 story and basement, 80 x 150 ft., brick and stone, known as Mt. Pleasant school, to Cunningham & Burwood, Lynn, Mass. $164,850.

Mass., Boston—Office—J. M. Howe, 10 State St., 3 story, 30 x 150 ft., brick, marble and stone, Bromfield and Province Sts., to I. F. Woodbury & Son, 185 Summer St. Archts. est. to exceed $150,000.

Mass., Malden—High School—Bd. Educ., Junior high school, 2 story, 65 x 108 ft., and 87 x 128 ft., brick and stone, Bway., to C. H. Cunningham & Son, 23 Central Ave., Lynn. Archts. est. $350,000. Noted Apr. 3.

Mass., Worcester — Office — Lockwood & Green & Co., engrs., 24 Federal St., Boston, 10 story, 100 x 125 ft., rein.-con., to G. A. Fuller Co., 710 Board Trade Bldg., Boston, for Worcester Investment Co. Noted Jan. 24.

R. I., Providence—School—Blessed Sacrament Roman Catholic Parish, 3 story, brick, Smith St. to E. Turgeon, Weybosset St. To exceed $500,000.

N. Y., New York—Apartment—Seventeen West Seventy First St. Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., will build 15 story, 75 x 80 ft., brick, steel and stone, plain foundation, West End Ave., by day labor. $600,000.

N. Y., New York — Apartment — Two Hundred Twenty Five West Seventy First St. Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., will build 9 story, brick, steel and stone, plain foundation, 8 East 85th St., by day labor. $350,000.

N. Y., New York—Garage—B. Zinick, 965 Putnam Ave., Brooklyn, will build 7 story, 100 x 150 ft., rein.-con., brick and steel, plain foundation, West 134th St., here, by day labor. $600,000. M. Klein, 39 Graham Ave., Brooklyn archt. and engr.

N. Y., New York — High School — Bd. Educ., 500 Park Ave., steel, stone and brick addition to High School of Commerce, 65th St. and Amsterdam Ave., to Stevenson & Cameron, Inc., 35-37 West 25th St., $930,627. Noted May 22.

N. J., Orange—High School—Bd. Educ., Main and Cleveland Sts., new high school, to Nelson-Pedley Co., Corn Ex. Bldg., Phila., $642,602. Noted Apr. 10.

Pa., Phila.—School—St. Benedicts Parish, W. C. Farrell, pastor, 2005 Chelton Ave., 3 story and basement, 76 x 150 ft., stone and brick, plain foundation, Chelton Ave. and Medary St., to D. W. O'Dea, 420 Duncannon St. Archts. est. $200,000.

La., New Orleans—Hospital—New Orleans Anti-Tuberculosis Assn., 3 story, rein.-con., Bayou St. John and Bayou Rd., to G. J. Glover, Whitney Bldg.

O., Cleveland — Office, Apartment and Garage—Ancaster Co., c/o J. H. Drummond, 7500 Euclid Ave., 4 story, 50 x 300 ft., to Drummon-Miller Co., 7500 Euclid Ave. Archts. est. $400,000.

O., East Liverpool—Bank—Potters Natl. Bank, 1 story and basement, 70 x 80 ft., terra cotta, brick and concrete, 5th and Washington Sts., to Potters Lumber Co., Bway. Archts. est. $150,000-$175,000. Noted Apr. 3.

O., Loudonville—High School—Bd. Educ., 2 story and basement, 116 x 135 ft., rein.-con. and brick, to Zicher & Miller, Sandusky, $115,200. Noted May 22.

Mich., Highland Park (Detroit, P. O.)—Office—C. R. Murphy, 812 Free Press Bldg., Detroit, general contract, 10 story and basement, 60 x 75 ft., brick, concrete and terra cotta, plain foundation, Woodward Ave., here, to O. Misch Co., 159 East Columbia Ave., Detroit. Archts. est. about $350,000. Noted Apr. 17.

Mich., Pontiac—High School—Bd. Educ., 3 story and part basement, 93 x 229 ft., and 78 x 129 ft., rein.-con., brick and steel, plain foundation, Sanford St., to Pryale Constr. Co., 701 East Pontiac Commercial Bank Bldg., $310,078. Noted May 1.

Ill., Springfield—Hotel—Abraham Lincoln Hotel Co., 1st Natl. Bldg., 12 story and basement, South 5th St., general contract to J. C. Evans, 509 South 6th St. Archts. est. $1,500,000.

Wis., Fond du Lac—Hospital—St. Agnes Hospital, 390 East Division St., plain foundation and concrete skeleton only hospital unit, 6 story and basement, 46 x 198 ft., brick and concrete, to Hutter Constr. Co., 128 Western Ave. Archts. est. $400,000. Noted Mar. 13.

Wis., Milwaukee — Convent and High School—Our Lady of Mercy Academy, 705 Natl. Ave., 3 story and basement, 130 x 220 ft., brick, tile and concrete, plain foundation, to Paul Riesens Sons, 1012 Humboldt Ave. Archts. est. $400,000. Noted May 15.

Wis., Shorewood (Milwaukee, P. O.)—High School—School Dist. 4, 3 story and basement, 95 x 180 ft. (1st unit, brick, tile and concrete, plain foundation, Oakland Ave., general contract, to Paul Riesens Sons, 1012 Humboldt Ave., Milwaukee. Archts. est. $285,000. Noted May 22.

Wis., Superior—Hotel—Citizens Hotel Co. 6 story and basement, 100 x 121 ft., concrete, brick and steel, concrete pile foundation, 1209-15 Tower Ave., to Jacobs Bros., Columbia Bldg., Duluth, $300,000. This corrects report in May 22 issue.

Minn., Minneapolis—Theatre, etc.—Clinton & Meyers, 203 Lyceum Bldg., Duluth, remodeling and converting auditorium-office building into 3 story and basement, 165 x 220 ft., rein.-con. theatre, store and office, 11th St. and Marquette Ave., to J. Leck Co., 211 South 11th St., $300,000. Noted Feb. 14.

Kan., Chanute—Memorial—City, general contract 3 story and basement, 108 x 198 ft., rein.-con., brick and stone, to G. H. Siedhoff Constr. Co., 402 North Belmont St., Wichita, $239,890.

Tex. Dallas—Hotel—Baker Hotel Co., c/o Texas Hotel, 18 story and basement, 141 x 200, L shaped, brick, terra cotta, steel and concrete, Commerce and Akard Sts., to Gilsonite Constr Co, Great Southwestern Life Bldg., $3,250,000. Noted Apr. 3.

Tex., Dallas—Warehouse—Southwestern Bell Telephone Co., Western Inc. Bldg., 2 story, 100 x 150 ft., brick and concrete, along Sante Fe R.R. tracks at Horton St., to Hickey & Montgomery, 808½ Commerce St., $150,000. Noted May 1.

Colo., Denver—High School—School Dist. 1, general contract South High School, 3 and 4 story, 326 x 386 ft., Franklin, Louisiana and South Gilipin Sts., to Dunn & Gibson Constr. Co., 1328 Inca St., $866,-100; heating, to J. Pfeiffer, 1140 California St., $129,115. Noted May 8.

Wash., Seattle—Forestry—University of Washington, 4 story fireproof, campus, to J. Arrington, 2451 Federal Ave., $193,360. Noted Dec. 20.

Calif., Los Angeles—Hotel—S. Lewis, c/o S. H. Brown, archt., Union League Bldg., will build 3 and 5 story, and basement, 50 x 150 ft., brick, 3rd St., by day labor. $150,000. Noted Apr. 3.

Calif., San Pedro—Warehouses—Petroleum Export Corp., Pacific Electric Bldg., Los Angeles, will build six 6 story, rein.-con., here, by day labor. $2,500,000.

Que., Quebec — Hospital — June 2, by Beauel & Morrissette, archts., Quebec, 6 and 7 story, hospital, St. Sacrement St., for Sisters of Providence. $1,000,000.

Federal Government Work

PROPOSED WORK

Ky., Fords Ferry—Ties—U. S. Engineer, P. O. Box 72, Louisville, soon takes bids 5,000 cross and switch ties for Dam 50, Ohio River, here.

Ky., Louisville—Truck—U. S. Engineer, P. O. Box 72, plans to purchase one ton steel dump body truck.

Ky., Owensboro—Dwellings—U. S. Engineer, P. O. Box 72, Louisville, plans 2 lock keepers dwellings at Dam 46, Ohio River, here.

BIDS DESIRED

Mass., Rutland—Hospital—June 24, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing and finishing 7 buildings at U. S. Veterans Hospital 89, here. F. T. Hines, dir.; adv. E. N.-R. May 29.

N. Y., Tupper Lake—Laundry—June 17, by U. S. Veterans Bureau Room 791 Arlington Bldg., Wash., D. C., laundry building at U. S. Veterans Hospital 96, here. F. T. Hines, dir.; adv. E. N.-R. May 29.

Pa., Greensburg—Post Office—June 13, by Treas. Dept. office Superv. Architect, Wash., D. C., remodeling post office here.

Md., Baltimore—Dredging—June 26, by U. S. Engineer, Baltimore, dredging in Baltimore Harbor and Channels; adv. E. N.-R. May 29.

Md., Federal Park—Buildings, etc.—June 24, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing buildings and utilities at U. S. Veterans Rehabilitation Center No. 2, here. F. T. Hines, dir.; adv. E. N.-R. May 29.

Md., Salisbury—Post Office—June 18, by Treas. Dept. at office Supervising Architect, Wash., D. C., 55 x 88 ft., brick and tile post office, here.

Ala., Florence—Screens, etc.—June 18, by U. S. Engineer Office, Florence, furnishing screens, headgates, roller trains, etc., for power house at Wilson Dam, Tennessee River; adv. E. N.-R. May 29.

Ind., Bluffton—Post Office—June 19, by Treas. Dept. at office Superv. Architect, Wash., D. C., 55 x 59 ft. brick and tile post office here.

Okla., Fort Sill—Hospital Ward—June 10, by War Dept. at office Constructing Quartermaster, Fort Sill, 2 story, 34 x 48 ft. hospital ward here; adv. E. N.-R. May 29.

BIDS RECEIVED

Pa., Aspinwall—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash.,

Federal Government Work (Continued)

D. C., constructing U. S. Veterans Hospital, here, from W. F. Trimble, 1719 Penna. Ave., Pittsburgh, Item 1 (a) $711,099 (b) $44,153 (c) $56,283 (d) $72,186 (e) $28,280 (f) $20,000, Item 2 (a) $125,000 (b) $4,350 (c) $6,000 (d) $5,000 (e) $4,500 (f) $4,100, Item 3 (a) $93,000 (b) $3,789 (c) $2,328 (d) $5,125 (e) $2,347 (f) $2,668, Item 4 (a) $65,000 (b) $2,000 (c) $2,000 (d) $5,000 (e) $1,920 (f) $1,920, Item 5 (a) $2,000 (b) $10,000 (c) $12,000, Item 6 $12,500, Item 7 $5,000, Item 9 deduct $9,000. Unit prices $2.50, $7.50, $25, $60, $2, $100, $0.25, $0.20, $0.33, $1.25, $0.19, $0.54; plumbing and heating combined from Virginia Eng. Co., Newsport News, Va., Item 2 (a) $120,375 (b) $5,546 (c) $5,835 (d) $4,157 (e) $4,240 (f) $4,200, Item 3 (a) $72,225 (b) $3,160 (c) $2,066 (d) $4,070 (e) $2,066 (f) $2,308. Noted Apr. 24.

Wyoming—Bureau Pub. Rds., 301 Customhouse, Denver, Colo., grading and surfacing 4 mi. Buffalo-Tensleep Rd., Washakie Co., from Wicksham Bros. & Schwieger, Billings, Mont., $24,960. Noted May 8.

CONTRACTS AWARDED

Md., Annapolis—Swimming Pool—Spec. 4972—Bureau Yards & Docks, Navy Dept., Wash., D. C., swimming pool, scum gutter at U. S. Naval Academy, here, to W. H. Jackson, 2 West 47th St., New York City, $12,960.

Fla., Jacksonville — Barge — U. S. Engineer, one steel barge, to C. W. Johnson, Lewes, Del., $19,800. Noted Apr. 3.

Miss., Gulfport—Mess Hall, etc.—June 24, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall addition, roads and walks, etc. at U. S. Veterans Hospital 74, here. F. T. Hines, dir.; adv. E. N.-R. May 29.

Ky., Fords Ferry—Lock—U. S. Engineer, P. O. Box 72, Louisville, will build Lock 50, Ohio River, here, by day labor. $1,500,000. Noted Mar. 27.

Ky., Louisville—Coffer Rods—U. S. Engineer, P. O. Box 72, furnishing 6,000 soft steel 3 in. coffer rods from Pidgeon Thomas Iron Co., 94 North 2nd St., Memphis, Tenn., $2.63 per cwt.

Ky., Louisville—Derricks—U. S. Engineer, P. O. Box 72, Louisville, furnishing 5 steel derricks, 40 ft. boon, to Amer. Hoist & Derrick Co., 63 South Robert St., St. Paul, Minn., $8,890.

Ky., Louisville—Pumps—U. S. Engineer, P. O. Box 72, furnishing sixteen 4 x 6 x 6 in. steam pumps, from Vogt Bros. Mfg. Co., 1402 West Main St., $1,468.

Ky., Louisville—Steel Boat Hulls—U. S. Engineer, P. O. Box 72, Louisville, furnishing 5 steel maneuver boat hulls, one for Louisville, 3 for Cincinnati and one for Huntington, W. Va., Dists., to C. Hegewald Co., New Albany, Ind., $52,790. Noted Apr. 3.

Mo., St. Louis—Dredge Pontoons—U. S. Engineers Office, War Dept., Wash., D. C., 12 steel dredge pontoons to Ruemmeli-Dawley Mfg. Co., 3900 Chouteau St., St. Louis, Mo., $35,880.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

462—H. V. Gates, The Dalles, Ore.—Wants license for small power plant on Crooked River, Jefferson Co.

463—D. P. Cooper, 217 Summer St., Buffalo, N. Y.—Wants preliminary permit to develop tidal power at Passamaquoddy Bay, and Head Harbor on Bay of Fundy in Maine and New Brunswick.

464—H. M. Thurman, Randsburg, Calif.—Wants license for small high head development in Birch Creek, Inyo Co.

465—H. M. Thurman, Randsburg, Calif.—Wants license for small high head development in Jail Canyon, Inyo Co.

466, 469, 472, 476, and 477 are constructed projects and are applying for license to operate, in compliance with Commissions rules and regulations.

467—Idaho Power Co., 7th and Bannock Sts., Boise, Idaho—Wants license for transmission line 8 mi. long in Baker and Malheur Counties, Ore.

468—J. A. Shafer, 1008 Odd Fellows Bldg., Indianapolis, Inc.—Wants preliminary permit for power project in Wabash River, Cass Co., near Logansport.

470—Pringle Falls Electric Power & Water Co., 500 Journal Bldg., Portland, Ore.—Wants preliminary permit for power project on West Fork of Deschutes River in Dechutes Co.

471—San Joaquin Light & Power Corp., 1801 Tulare St., Fresno, Calif.—Wants license for transmission line in Kern, San Luis, Obispo and Santa Barbara Counties, Calif.

473 — Kentucky Northern Power Co., Frankfort, Ky.—Wants preliminary permit for dam in Licking River, 3 mi. above Falmouth.

474—Southern Sierras Power Co., Riverside, Calif.—Wants license for transmission line about 17 mi. long, known as Cajon-Lime Products extension transmission line, in San Bernardino Co., Calif.

475—Hiawasse River Power Co., Murphy, N. C.—Wants preliminary permit for series of power dams in Hiawasse River in Cherokee and Clay Counties, N. C.

478—Great Falls Power Co., Butte, Mont.—Wants license to build 3.2 mi. transmission line in Cascade Co.

479—Montana Power Co., Butte, Mont.—Wants license for 12 mi. transmission line in Granite Co.

480—Southern Sierras Power Co., Riverside, Calif.—Wants license for 6.15 mi. transmission line near Victorville, San Bernardino Co.

481—Southern Sierras Power Co., Riverside, Calif.,—Wants license for transmission line in Riverside Co.

482—Gila Valley Power Dist., Wellton, Ariz.—Wants license for transmission line in Yuma Co.

483 — Nevada — California Power Co., Riverside, Calif.—Wants license to divert north fork of Rush Creek into Gem Lake Reservoir, Mono Co., Calif.

484—H. V. Gates, Terrebonne, Ore.—Wants preliminary permit for power project in Crooked River, Jefferson Co., irrigation and lighting for commercial purposes.

485 — Columbus Electric & Power Co., Columbus, Ga., Wants preliminary permit for power project on Chattahoochee River in Chambers and Lee Counties in Alabama and Harris Co. in Georgia.

487—Pennsylvania Power & Light Co., Allentown, Pa.—Wants license for dam and power house in Wallenpaupack Creek, Wayne and Pike Counties, near Hawley.

488—Thermalito Irrigation Dist., Oroville, Calif.—Wants license for 80 ft. dam in Concow Creek, Butte Co., near Oroville, diverting water through Coal Canyon plant of Pacific Gas & Electric Co.

489—City of Aberdeen, Wash. — Wants preliminary permit for 240 ft. dam across Wynoocke River and power house in Grays Harbor Co.

490—San Diego Consolidated Gas & Electric Co., 861 6th St., San Diego, Calif.—Wants license for transmission line between Escondidi and Rincon, 15.8 mi. long in San Diego Co.

492 — J. E. Walker, Mackay, Idaho — Wants preliminary permit for 10 ft. diversion dam and power house in Big Boulder Creek, Custer Co., near Mackay and Challis.

493—L. E. Foster, Buckhorn, Grant Co., New Mexico—Wants preliminary permit ror power project on Gila River, Hidalgo and Grant Counties, to develop 30,000 h.p.

494—Dell & Potter, Clifton, Ariz.—Wants preliminary permit for power project on Black River in Apache, Greenlee and Graham Counties.

Unclassified

PROPOSED WORK

Wharf—Plymouth, Mass.—Plymouth Relocation Com. plans wharf. To exceed $25,000. F. Eastwood, chn.

Transmission Line — New York — St. Lawrence Co. Utilities Inc., Ogdensburg, plans 8-9 mi. 3 phase high tension line, transmission line from Ogdensburg to Morristown. To exceed $25,000.

Development Play Grounds, etc.—Phila., Pa.—Dept. Welfare, Bureau Recreation, plans developing and improving as follows: Mill Creek Play Ground, 47th and Ashland Sts., $14,000; Hancock Sq. Play Ground, Mascher, Hancock, Master and Jefferson Sts., $7,000; East Germantown Playground, Chelton Ave. and Anderson St. $17,538; plot at American, Phillips, Reed and Earp Sts., $21,000; plot at Richmond, Buchlus, Ash and Bath Sts., $15,000; Roxborough Playground Pennsdale and Mitchell Sts., $39,200; Belmont Playground, 21st and Chew Sts., $16,300; Pennse Memorial Playground, Susquehanna and 12th Sts., $29,800; Francisville Recreation Center, Francis and Shirley Sts., $42,000; Weccacoe Playground, Catherine St., $13,500; plot C. D. Ontario and Wesmoreland Sts. $1,000; equipping and constructing pool Whitehall Commons Playground, Torresdale and Wakeling Sts., $40,000. Private plans.

Park, etc. — Melbourne, Fla. — Election June 9, $35,000 bonds, park, incl. fill and hydraulic dredging.

Fire Walls—New Orleans, La.—Bd. Port Comrs., 200 New Court Bldg., plans 4 new fire walls, two at 1st and Robin St. sheds, and two in lower end of city below Canal St.

Stadium — Wooster, O. — College of Wooster having plans prepared rein.-con. stadium, 5,000 seating capacity. $25,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, engrs. Noted Jan. 10.

Stadium—Madison, Wis.—University of Wisconsin having plans prepared by A. Peabody, State Capitol, one 25 x 62 ft., one 50 x 62 ft., and one 22 x 450 ft., concrete additions to athletic stadium at Camp Randall. $50,000. Noted Apr. 24.

Grand Stands—St. Louis, Mo.—Dodier Realty Investment Co., 2906 North Spring Ave., making preliminary plans baseball park stands, concrete and steel, 10,000-15,000 seating capacity. $100,000. Private plans.

Pipe Line—Texas—Magnolia Petroleum Co., Beaumont, making plans 210 mi. gas pipeline from Webster Parish, La., to here. $500,000. Private plans.

Gas Mains — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., plans 29,043 ft. 4 in. c.i. gas mains in 33 streets and avenues, $66,039, and 12,237 ft. 6 in. c.i. gas mains in 10 streets and avenues, $35,573, 4,955 ft. 8 in. c.i. pipe in 3 streets $16,803. E. S. Stanton, supt. gas distribution.

Power Development — Ontario — Ontario Hydro Comn. Ottawa, plans development on Ottawa River on sites between Ottawa and Pembroke Chats Falls, Du Ford Falls, Des Joachin Falls and Alumette Falls, to result in generation of 700,000 hp.

BIDS DESIRED

Subway — Cincinnati, O. — June 6, by Rapid Transit Comrs., City Hall, 5.3 mi. rapid transit line, incl. 1,600 ft. subway, 415,000 cu.yd. excav., 20,200 cu.yd. rein.-con., 910 tons reinforcing, 5,200 cu.yd. plain concrete, 235 ton structural steel, etc. $1,000,000. F. Krug, City Hall, engr. Noted May 15.

Street Lighting System—Calif., Hawthorne—See "Streets and Roads."

Seawall — California — See "Streets and Roads."

BIDS RECEIVED

Wharf & Transfer Shed—Corpus Christi, Tex.—Corpus Christi and Neuces Co. Navigation Dist. 1, wharf and transfer shed, from Sumner Sollit Co., Natl. Bank Commerce, San Antonio, $745,070. Noted Apr. 10.

CONTRACTS AWARDED

Coal Pocket—Everett, Mass.—New England Fuel & Transportation Co., 111 Devonshire St., Boston, trestle, bulkhead, etc., here, to Aberthaw Constr. Co., 27 School St., Boston. Engrs. est. $100,000.

Coal Handling Plant—Fall River, Mass.—A. J. Richards & Sons, Weymouth, new coal handling plant, to G. P. Carver, Inc., 261 Franklin St., Boston. Archts. est. to exceed $100,000.

Coal Handling Plant—Hartford, Conn.—Capitol Coal Co., new plant on property of New York, New Haven & Hartford R.R., to G. P. Carver Inc., 261 Franklin St., Boston. Archts. est. about $100,000.

Trolley Tunnel—Phila., Pa.—Fairmount Park Comn., City Hall, completion trolley tunnel in front Art Museum, to O'Neill Co., 127 East Mermaid Lane, $200,000. Noted May 8.

Retaining Wall—Wheeling, W. Va.—See "Streets and Roads."

Retards, etc.—Lexington, Mo.—State Hy. Dept., Jefferson City, 2,400 lin.ft. current retards along north bank Missouri River, above here, in connection with bridge over Missouri River, here, to Woods Constr. Co., Lincoln, Nebr., $140,400. Noted May 15.

Grain Elevator—Ft. Worth, Tex.—Kimbell Milling Co., South Main St., concrete addition to grain elevator, to Jones-Hettelsater Constr. Co., Mutual Bldg., Kansas City, Mo., $125,000. Noted Feb. 28.

Heating—Denver, Colo.—See "Buildings."

Gas Mains — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., will build 28,358 ft. 4, 6, 8, 12 and 16 in. c.i. gas mains in 29 streets and avenues, by day labor, $104,159. E. S. Stanton, supt. gas distribution. Noted May 15.

Tunnel—British Columbia—British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, 3,561 ft. tunnel, 14 x 14 ft. diameter, from Alouette Lake to Stave Lake, to O. Olson, Maple Valley, Wash., $331,600. Noted Apr. 24.

Material and Equipment

PROPOSED WORK

Road Oil—Syracuse, N. Y.—Pub. Wks. and Park Comn., plan to purchase road oil. $33,000.

Road Oil—Watervliet, N. Y.—Common Council plans to purchase 20,000 gal. road oil.

Snow Removal Machinery—Racine, Wis.—Racine Co., plans to purchase snow removal machinery. W. Bechthold, hwy. comr.

Tractors, etc.—Minneapolis, Minn.—F. S.